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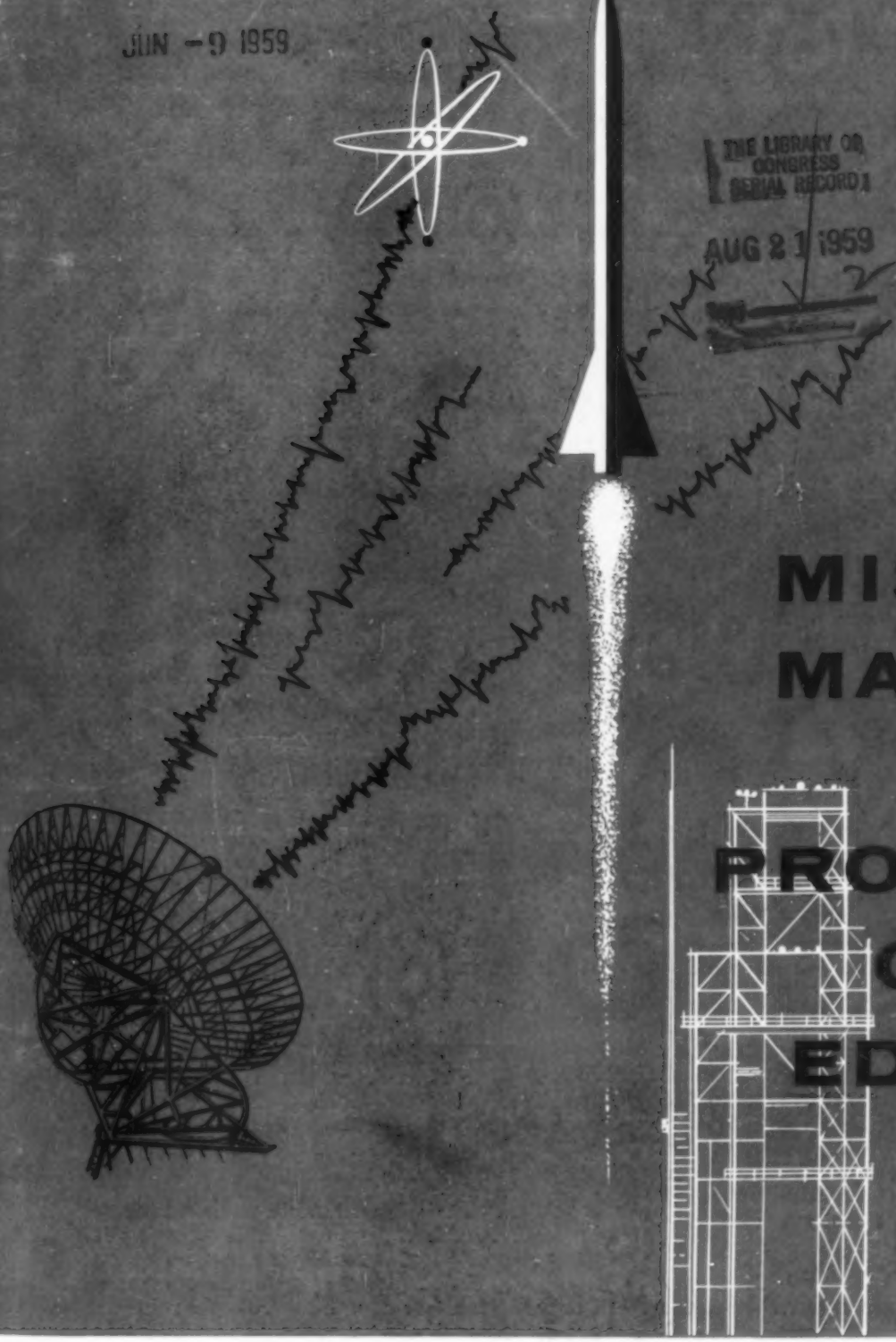

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missiles and rockets

MAGAZINE OF WORLD ASTRONAUTICS
AN AMERICAN AVIATION PUBLICATION
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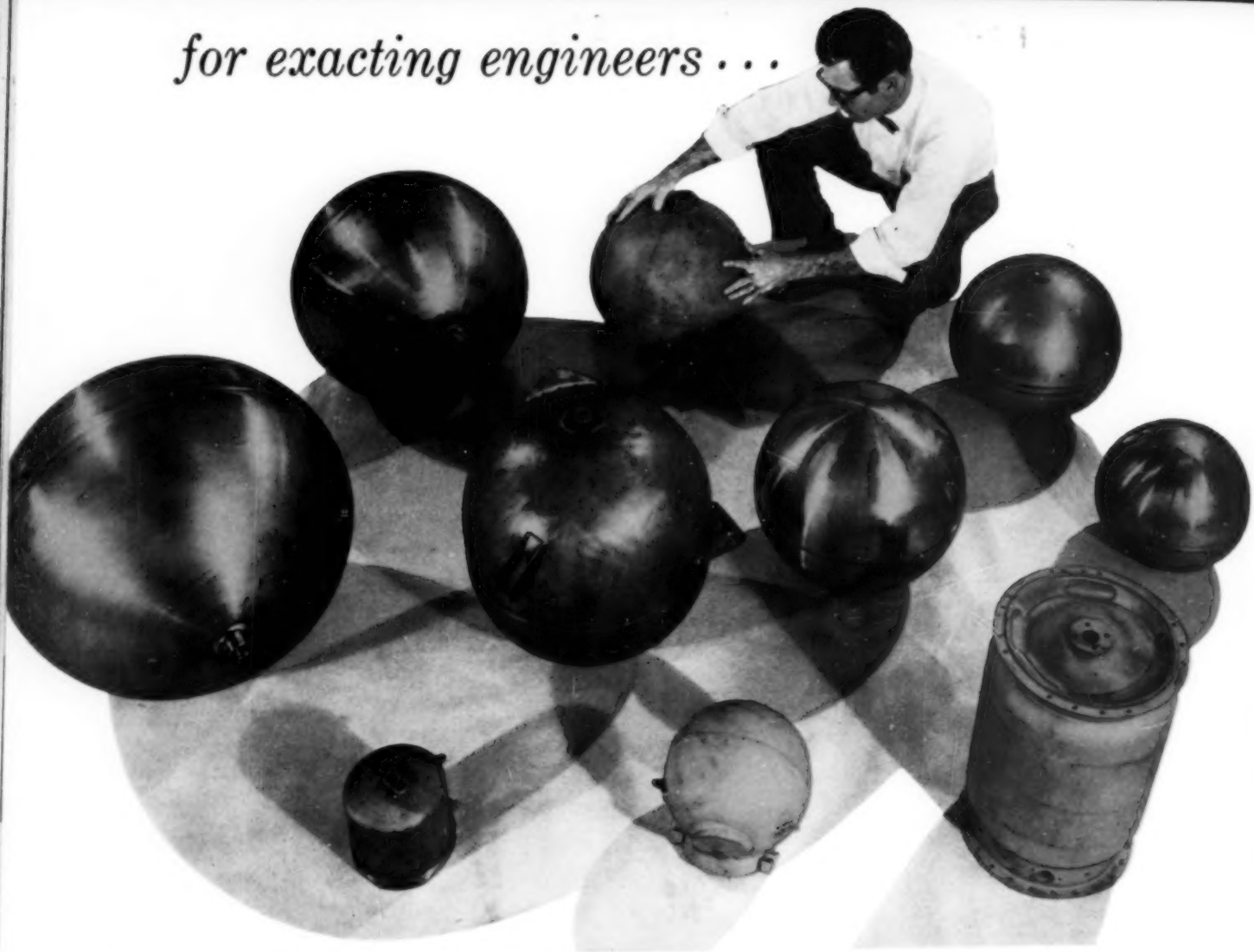

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SOME DOWN-TO-EARTH THOUGHTS ABOUT THE SPACE AGE

Like all those who participate in the progress of aviation, we are awed by the prospect of the conquest of space. But before we rush headlong into the cosmic dust, let's hang up our space helmets for a moment for some sober reflection on what it will take to get there.

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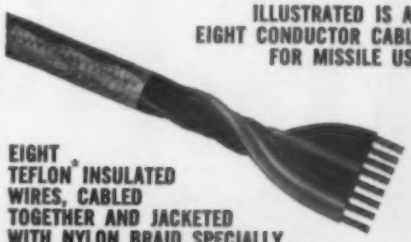

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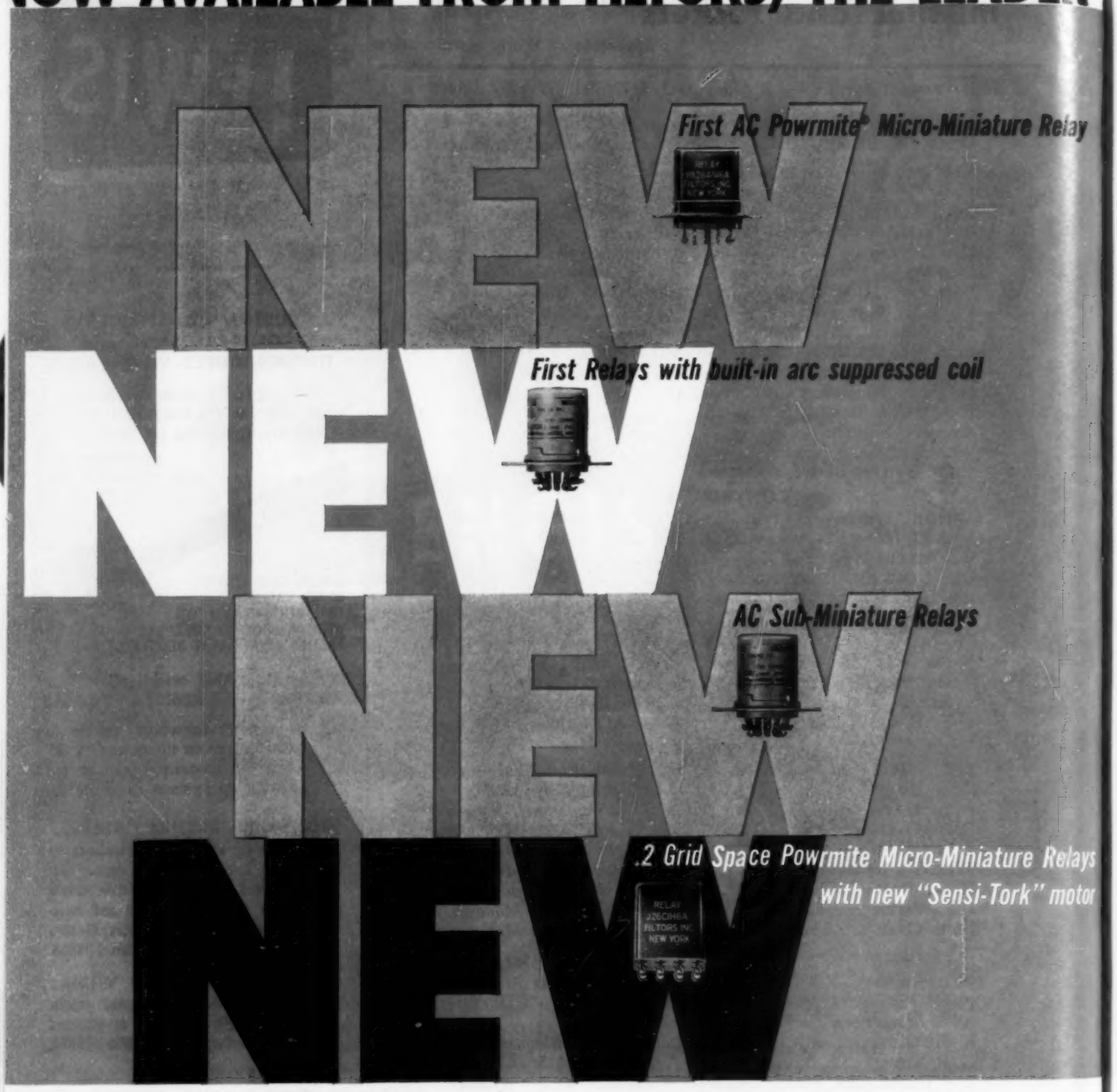

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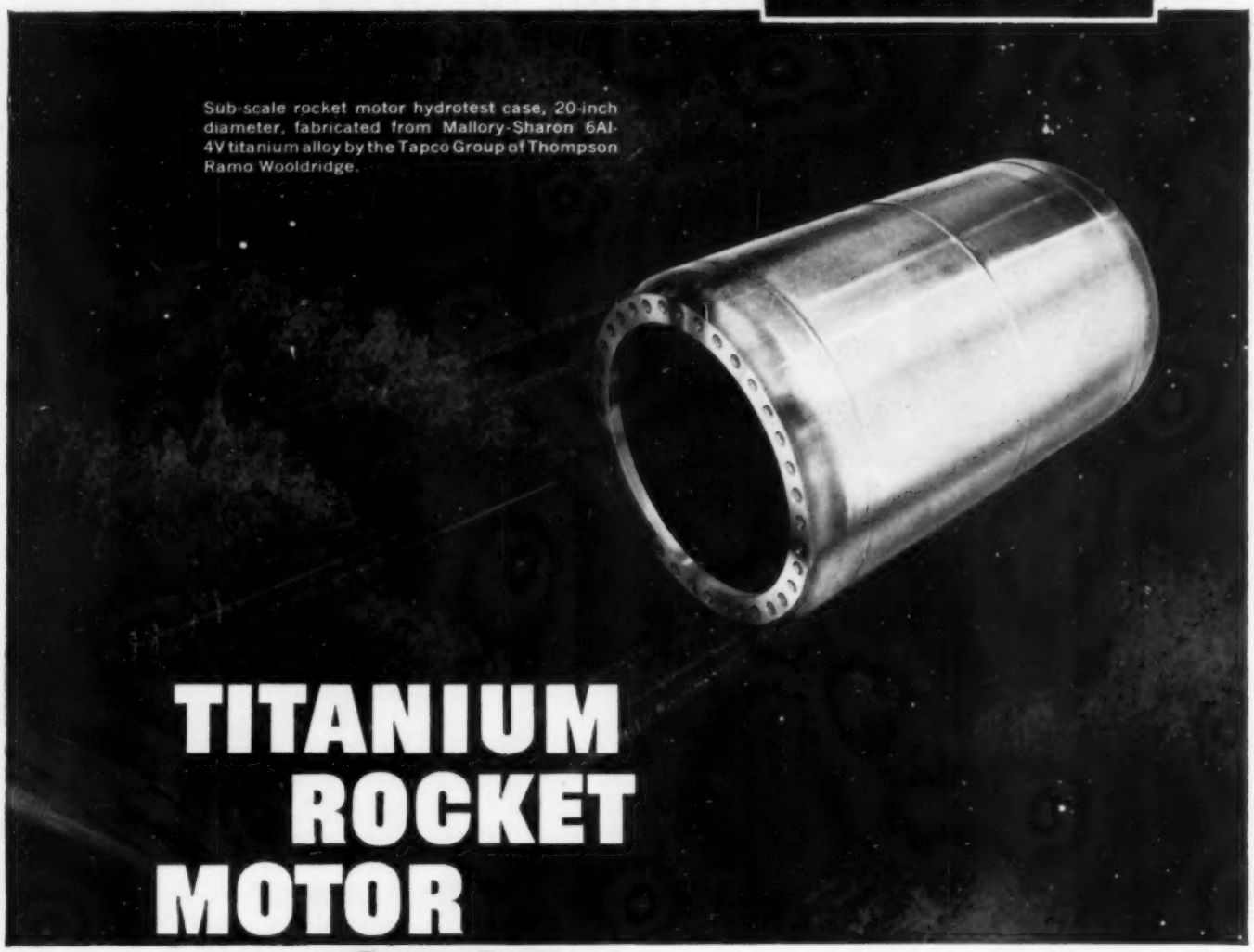

Sub-scale rocket motor hydrotest case, 20-inch diameter, fabricated from Mallory-Sharon 6Al-4V titanium alloy by the Tapco Group of Thompson Ramo Wooldridge.

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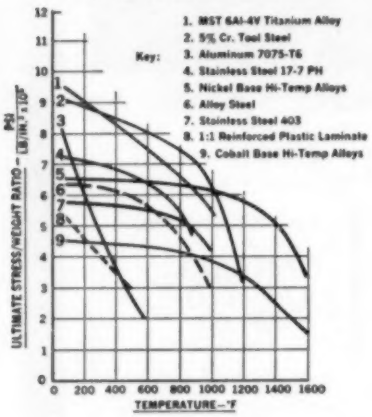

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For technical information on MST 6Al-4V or other titanium alloys, write to: Aircraft & Missile Development Dept., Mallory-Sharon Metals Corporation, Niles, Ohio.

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missile market and product guide

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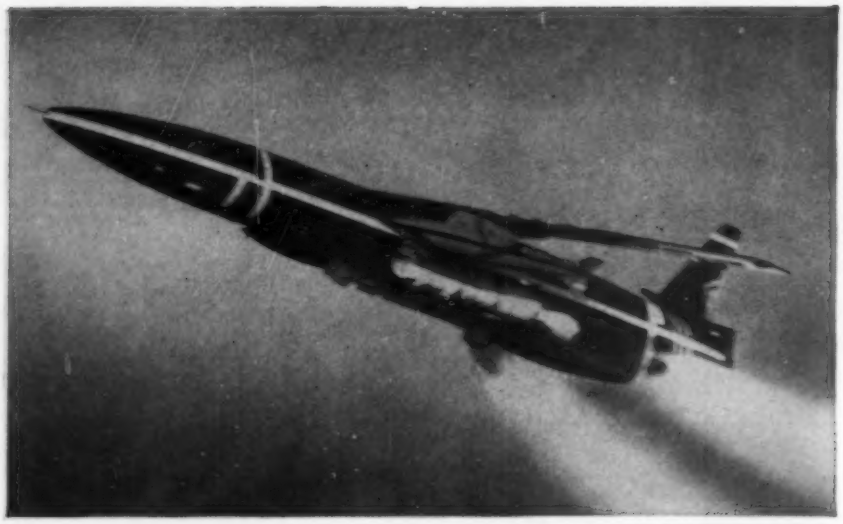

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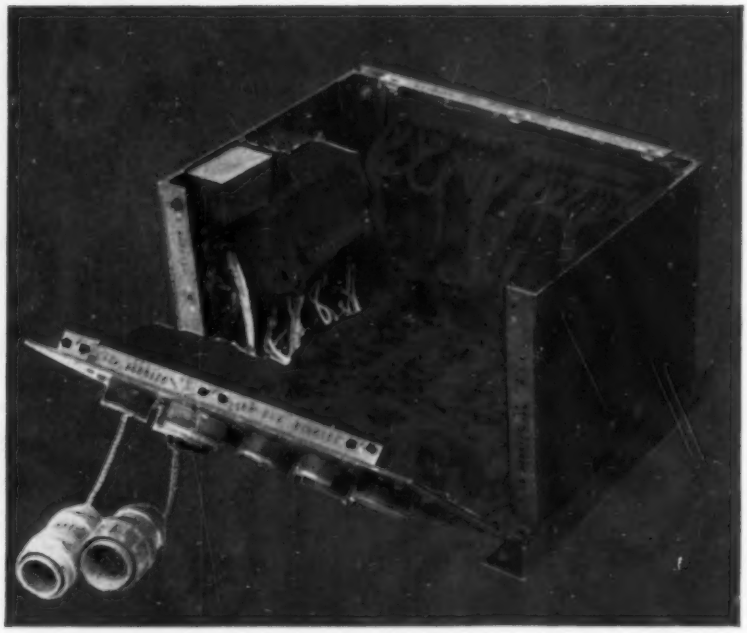

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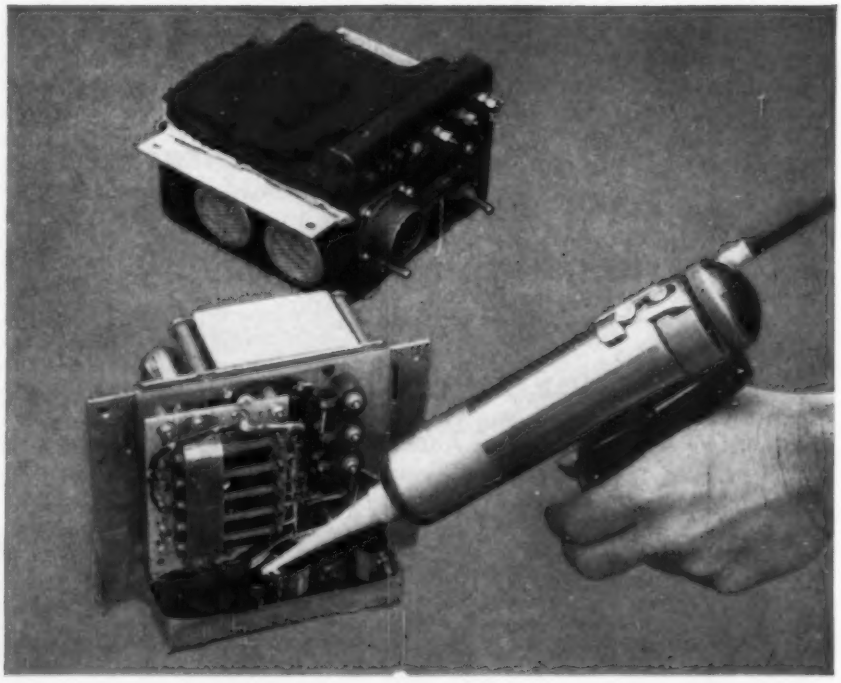

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Missile Support—a New U.S. Industry

Within the months ahead this country will see the development of an almost new segment of industry—one which will eventually run into billions of dollars. It is the construction of ballistic missile bases and the equipping of them with supporting hardware.

Involved to some extent will be the same companies which produce the missiles, the big primes which have traditionally been associated with the spacecraft and/or the aircraft business. But in addition to them, thousands of big and little companies to whom the missile and space industry a few months ago was as foreign, say, as a trip to Mars, will find themselves accidentally or intentionally concerned with producing or installing the thousand and one items which go to support the missiles of the very new future.

For the missile—and while this is intended primarily to treat of the big intercontinental ballistic types it also holds true for the smaller ballistic weapons and the air-breathers as well—is somewhat like the iceberg where cost visibility is concerned. Something like four-fifths is hidden. For example, a *Titan* ICBM may cost $2 million. The site to contain a squadron of nine *Titans* will cost $45 million, not including the personnel to man it.

The $45 million takes in the cost of a concrete blockhouse strong enough to withstand an accidental explosion; the cost of communications cables connecting with each launching pad—many-stranded cables which will snake through conduits at the cost of $800 a foot. It will include tons of concrete for handstand, miles of pipe for both liquids and gases; scores of pumps, hundreds of valves, generators, tubes and transistors, tons of steel in every form, aluminum and a dozen other metals, scores of chemicals. Heavy earth-moving equipment will be used, trucks, bulldozers, forklifts, lumber, lighting equipment—gauges and computers and every form of checkout equipment.

Some of the big ballistic missile launching pads will be hardened, that is, either sunk in holes or otherwise protected from possible enemy nuclear weapons. Our first ICBM, the *Atlas*, will be partially hardened, at some sites at least, probably to lie in a rough concrete-lined coffin with a sliding cover. From this "coffin" it will be raised and fired. The second liquid fuel ICBM, the *Titan*, will be lowered into holes in the ground, inverted silos, from which they will be raised to the surface and fired. The third ICBM, the second-generation, solid-fuel *Minuteman*, will also be housed in inverted silos from which it will be fired without elevating to the surface. A solid-fuel vehicle can be fired from the hole because it rises much more quickly in the initial firing stage and thus does not present the heat dissipation problem of the liquid-fuel missile.

The ICBM sites must also include living quarters for personnel, storage facilities for materials and for maintenance equipment. They must include, believe it or not, recreation facilities for crews who will be on constant alert 24 hours of every day.

None of the equipment needed for a missile site—and none of the skill—is new to American industry (with the exception of some of the more esoteric checkout and testing devices), but industry will be faced with a demand from the military services to come up with new techniques for both speed and lower costs.

How do you drill a hole 100 feet deep and 20 feet in diameter for the *Minuteman?* How do you line it with concrete, properly reinforced to withstand the shock of a near-miss nuclear explosion?

The services say: "Give us a new technique which will dig the holes in one day and line them with concrete in another—all at a cost of $50,000 and not $500,000." And they are talking about as many as a thousand holes for a thousand *Minutemen.*

Which will be the companies to come up with new ideas in prefabrication, in miniaturization? Who will provide the shortcuts, the better, the faster and the cheaper way to do it?

There is no royal road to defense contracts and no magic formula for bidding. Uncle Sam is a tough customer and he wants and usually gets a full dollar's worth for every dollar he spends. He is as eager to find the little company with the bright idea or the special skill as he is to deal with the giant primes. Equally true is the fact that the big companies are always searching for the little man who has found a better way to do it. The price of missiles will come down as the skills of spacecraft advance—$100,000 for the *Minuteman*, for example. In parallel fashion, the cost of missile sites must lower, too, and it will be industry, big or little, which will bring that cost down through ingenuity while reaping a golden harvest as it happens.

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P16	.163	12000	7.9	16000	3.000	4.250
P11	.115	12000	5.5	16000	2.750	3.625
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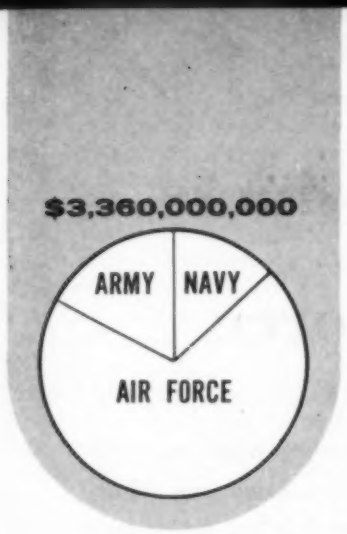


Procurement & Production
Missiles, FY 1960

How To Do Business With the Defense Department

Outlined here are some helpful pointers for the average business man who wants to sell to the Department of Defense but doesn't know quite where to start . . .

TO THE AVERAGE business man hunting a contract from the Defense Department, the questions of whom to see, where to go and what to take with him are almost insoluble. Difficulties stem not only from the complexity of the Defense Department's procurement organization but also from changes which are almost constantly made in the techniques and rules of procurement.

As a starting point, the Defense Department, itself, buys nothing. It has a number of procurement agencies. The biggest, of course, are the Army, Navy and Air Force, with the Defense Department's Advanced Research Projects Agency likely to enter the field later. Each of these agencies themselves are subdivided with procurement responsibility decentralized throughout the country.

DOD's basic role in procurement is one of policymaking. It also decides how many dollars each of the services may spend and, in some cases, actually decides which weapon system may be bought and by whom.

Purchases are made either by formal advertising or by negotiation. For missiles, rockets, ground support equipment, and subsystems, normally a procedure called "competitive negotiation" is used. This means, generally, that contractors thought to be qualified are invited to submit competitive proposals which are evaluated. After evaluation, a contract is negotiated with the contractor whose proposal seems most nearly to meet the military requirement.

Rules governing both formal advertising and competitive negotiation are spelled out in great detail in the Armed Services Procurement Regulation, Army Procurement Procedure, Navy Procurement Directives and, Air Force Procurement Regulations and Instructions.

Most big manufacturers who do business with the agencies of the Defense Department on a regular basis maintain Washington organizations to handle the technical problems inherent in the complex procurement structure. It is the company which wants to come in for the first time or the small business firm which needs the most guidance.

All kinds of advice is available, particularly to small business concerns. To qualify, a concern must have less than 500 employees and cannot be dominant in its field of operation. A certificate from the Small Business Administration will be taken at face value by Defense Department procurement officers.

Each of the military departments has an active program to help small business to compete for defense procurement. In addition, some contracts may be set aside in whole or in part for the exclusive benefit of small business.

In the case of equal low bids submitted by a large and a small company, preference would generally be given to the small concern. However, if a big company agrees to perform the work in an area of substantial unemployment, it will receive a preference over a small concern which won't or can't produce in a labor surplus area. To bolster the small business program, Defense officials work with the Small Business Administration to screen procurement that can be set-aside for exclusive small business participation. However, there is more than a little question as to the effectiveness of the program.

Generally, Defense officials have expressed the belief that the most effective role which small business can play is in the subcontract structure. All major contractors maintain an active program which aims at establishing a qualified list or lists of subcontractors and suppliers. Many defense contracts specifically require that a specified percentage of a big contract be subcontracted and gradually, the military services are screening the subcontract structure to be sure that conditions are complied with.

For subcontracts, manufacturers are advised to apply directly to prime contractors. Names of the principal contractors can be obtained from a Commerce Department Synopsis of Bids published almost daily and from records maintained by the Defense Department.

In the research and development area, special opportunities are available to small concerns and nonprofit institutions. Here the yardstick is competence, which frequently has little to do with size. Special efforts are made both by the military departments and the Defense Department to find the right man or the right company for the job in the area of research and development. More details will be found in other articles in this section.

In general, a would-be contractor will find the following rules helpful:

(1) Don't come to Washington when you first decide you want military work.

(2) Analyze the capabilities of your company, including facilities know-how, available labor pool, management and finance.

(3) Visit the nearest procurement or contract administration office to your plant, taking with you your analysis of company capabilities.

(4) Visit prime contractors, taking an analysis or proposal with you, picking those prime contractors who are located close to your own plant.

(5) Study or have a competent lawyer study the procurement structure of the military departments to be sure that buying representatives are made aware of your company's capabilities.

(6) Don't sign a contract without competent advice.

PROCUREMENT & PRODUCTION
MISSILES, FY 1960

How To Do Business With the Air Force

The buying arm of the Air Force carries over one million items in inventory. Here is a rundown on where the would-be contractor should go and what he should do when seeking this business . . .

AIR MATERIEL COMMAND located at Dayton, Ohio, is the Air Force's buying, supply and maintenance arm. Its workload is decentralized to Air Materiel Areas, Centers and Depots. It buys new production weapons for inventory, provides spare parts and material to maintain equipment already in the hands of the troops and makes research and development contracts on orders from the Air Research and Development Command. Some idea of the scope of the job can be obtained from the fact that AMC carries more than 1,300,000 items in inventory.

Knowing that a requirement will exist for better tooling, a new material, or new electronic equipment, it makes manufacturing methods contracts with research organizations and with industry in an effort to assure the availability of equipment in production quantities and at practicable costs.

Air Materiel Command is headed by Lt. Gen. Samuel E. Anderson, Jr. His deputy is Lt. Gen. William F. McKee. It is divided into six directorates which now operate as staff offices. These are: Plans and Programs, Procurement and Production, Supply, Maintenance Engineering, Transportation and Services, and Personnel and Support Operations. There is a separate Quality Control office to improve reliability.

Major responsibility for procurement is vested in the Aeronautical Systems Center at Wright Patterson Air Force Base, Ohio, and the Ballistic Missiles Center, AF Unit Post Office, Los Angeles 45, Calif.

Aeronautical Systems Center is responsible for the purchase of complete missiles, other than ballistic, complete aircraft and aerial targets. In addition, it is responsible for the procurement of fire control systems, launchers, rocket and pyrotechnic weapons, warheads and explosives, photographic equipment, bombing and gunnery equipment, airborne radio and radar equipment, initial spares and ground support and tools/test equipment except for propulsion systems, research and development and service test of nonstock listed items. It buys, of course, many kinds of aircraft accessories and equipment.

Ballistic Missiles Center buys ballistic missiles, space vehicles and related equipment such as propulsion and guidance systems, ground support equipment, initial spares, tools, test equipment and the like. In the space field, Ballistic Missiles Center lets contracts on instructions from Advanced Research Projects Agency as well as the Air Force.

Electronic Defense Systems Division, 220 Church Street, New York City is responsible for the procurement of engineering management and other services for Air Defense Systems such as SAGE, DEW Line/White Alice (Alaska) and the new Ballistic Missile Early Warning Line.

The Air Materiel Areas have been designated Logistic Support Managers as well as weapon system managers to be sure positive supply support is provided to tactical units of first line weapons. This means:

Middletown Air Materiel Area, at Olmsted Air Force Base, Middletown, Pa. buys guided missile components support and rocket engine parts for the *Falcon* (GAR 1,2,3, and 4); *Sidewinder* (GAR 8); fuels, lubricants oils, waxes and corrosion preventative compounds; chemicals and chemical products; gases, compressed and liquified and gas cylinders; miscellaneous instruments (other than Government-Furnished Aircraft Equipment—GFAE) and laboratory equipment; electrical meters and maintenance parts; parachutes and aerial pickup and cargo tie-down equipment. It also provides for contractual maintenance and modification services for the support of commodities listed above and missiles and/or engines for which it has prime maintenance responsibility. It also buys structural components and aircraft engine parts for specified training, transport and liaison aircraft.

Mobile Air Materiel Area, Brookley AFB, Mobile, Ala., buys guided missile components for the SA-16 *Jupiter* intermediate range ballistic missile and aircraft components for the F-84 and F-105. It also provides for contractual maintenance and modification services for this missile.

Ogden Air Materiel Area, at Hill AFB, Ogden, Utah buys guided missile components, support and engine parts for the IM 99 *Bomarc,* SM-62 *Snark* and the SM-73 *Goose* (now cancelled). It also buys laboratory equipment biological surveillance and provides contractual maintenance and modification services for the listed missiles and/or engines. It also keeps parts for F-101 and other specified aircraft.

Oklahoma City Air Materiel Area, Tinker AFB, Oklahoma City, buys guided missile components, and support for the *Rascal* (GAM-63, now cancelled); *Hound Dog* (GAM-77) and *BullPup,* and provides maintenance and modification services for these missiles. It also buys parts and support for B-52, B-47, KC-135 and other aircraft.

Rome Air Materiel Area, Griffiss AFB, Rome, N.Y. is responsible for the purchase of the largest part of the Air Force's electronic, radio and radar

equipment procurement. Specifically, it buys ground radio, radar and navigational equipment, meteorological equipment, instruments (except airborne) and supplies; ground communications equipment, miscellaneous electric power and distribution equipment and supplies, lighting fixtures for airports, lighting fixtures and lamps (except airborne), and electric wire and cable.

Rome AMA buys the engineering and installation of ground electronics support equipment, facilities and systems (GEEIA). It also buys systems integration, development, service test and similar functions required for implementation and operation of Electronic Support Systems (ESSPOs).

San Bernardino Air Materiel Area, at Norton AFB, Calif., has been designated the support manager for ballistic missiles. As such, it buys guided missile components and support for the *Atlas, Titan* and *Thor* ballistic missiles and will, presumably, take on the job for *Minuteman* at a later date. It is also responsible for the support of the Q-2 target drone built by Ryan and the Q-4 drone built by Radioplane. It also buys parts and support for specified aircraft.

Warner Robins Air Materiel Area, Robins AFB, Macon, Ga., buys guided missile component support for the *Matador* (TM-61) and *Mace* (TM-76) and airframe structural components for the C-130 and B-57. Aircraft launching, landing and ground handling equipment; weapons, except Army Ordnance assigned items; bearings; metal working and woodworking machinery and equipment; maintenance and repair shop equipment (aircraft, motor vehicle and weapons); tires and tubes, except aircraft; gas turbines and jet engines, except aircraft; rescue and safety equipment. The AMA will provide contractual maintenance and modification services for support of commodities listed above and aircraft, bombing, gunnery and fire control systems and equipment and aircraft and missiles and/or engines for which the AMA has primary responsibilities.

Dayton AF Depot, Gentile AF Station, Dayton, Ohio, buys airborne radio, radar and navigational equipment and components, airborne communications equipment; electrical and electronic equipment, components; terminals; terminal boards, connectors, fuses, lightning arrestors, capacitors, resistors, switches, circuit breakers, tubes, relays, contactors, solenoids, insulators, knobs, pointers, dials and piezo electric crystals, laboratory and shop test inspection equipment and maintenance parts, measuring tools, inspection gages, and combination and miscellaneous instruments. Dayton does *not* buy any Government Furnished Aircraft Equipment (GFAE) in the way of airborne radio or airborne communications equipment.

There are two other air materiel areas and one depot. **Sacremento AMA** at McClellan AFB specializes in the purchase of airframe structural parts for aircraft including the F-100, F-104 and the upcoming F-108 among others. **San Antonio Air Materiel Area,** at Kelly AFB, Tex., buys airframe structural parts and engine parts for the B-58, the F-102 and has been designated the support manager for the B-70, chemical bomber and the WS-125A, nuclear-powered aircraft.

In outlining the decentralized procurement responsibility, Air Materiel Command notes that there is, in addition, a local purchase or base procurement program. This deals with the purchases of supplies and services required to support a specified installation. Most of the items bought are of a housekeeping nature.

Actually the would-be contractor or subcontractor doesn't have to go to the listed AMAs for help. Middletown AMA is responsible for five procurement districts, located at Boston, Newark, New York, Philadelphia and Rochester. In addition, there are eight Air Procurement offices, located at Hartford, Conn., Hackensack, N.J., and South Orange, N.J.; Stamford, Conn.; two in Pittsburgh, Pa., and one at Buffalo and Syracuse, N.Y. Finally AF has stationed at the plants of principal contractors representatives who can help. These are located at Bell Aircraft, Niagara Falls; Curtiss-Wright Wood-Ridge, N.J.; Fairchild Engine and Airplane at Hagerstown, Md., General Electric, Syracuse; Sperry Gyroscope, at Great Neck, L.I. and United Aircraft at Stamford, Conn.

How does the Air Force manage its vast buying program? It uses what it calls the Weapon System Integration concept. This means that an AF contract gives a strong prime contractor the basic responsibility to design, develop, produce and manage the total effort under the supervision of the Air Force.

However, this does not mean that subcontractors and suppliers are left out in the cold. AF usually requires that a specific part of the contract be subcontracted. It also wants to approve the subcontract structure.

Purpose is to be sure that the prime contractor does not keep in-house work which can be done more efficiently or economically on the outside.

Most of the prime contractors maintain active organizations which aim at building up and maintaining a strong subcontract structure. These involve in some cases as many as 23,000 subcontractors and suppliers, with 5,000-6,000 not being in any way unusual. A good point of contact for business is the prime contractors including: Boeing Airplane Co., Seattle, Wash.; North American Aviation, Canoga Park and Downey, Calif.; Lockheed Aircraft, Sunnyvale, Calif.; Aerojet General Corp., Nimbus, Calif.; Convair Division of General Dynamics at San Diego, Calif.; McDonnell Aircraft, St. Louis; Radio Corporation of America, Camden, N.J.; General Electric, Philadelphia, Pa., and Syracuse, N.Y.; Douglas Aircraft, Santa Monica, Calif.; Republic Aircraft, Farmingdale, L.I.; The Martin Company, Denver, Col., and Orlando, Fla.; Hughes Aircraft, Culver City, Calif., and Tucson, Ariz.

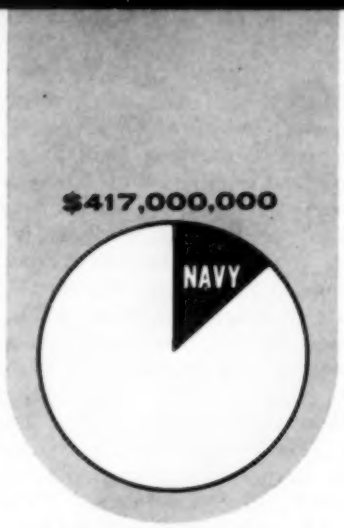
In one important area, Air Force does not handle its own work. Construction of missile bases, while planned for by the Air Force is handled by the Corps of Army Engineers acting as agent for the Air Force. Most of the contracts for construction of bases, many of which involve the installation of equipment, are handled on open bids invited by the District Engineer in which the installation will be located.

If you aren't interested in producing hardware but have a new idea, or a new way of doing something important for the AF, the Air Research and Development Command at Andrews AFB, just outside of Washington, D.C., frequently will talk business to private research groups, industrial concerns, regardless of size, and to nonprofit organizations.

ARDC is headed by a lieutenant general. There is a vice commander and an assistant vice commander. The office is divided into five main sections: Resources; Air Defense Systems Integration; Research; Ballistic Missiles, and Weapon Systems. Air Defense Systems Integration is located at Bedford, Mass. and the Ballistic Missiles Division is located at Inglewood, Calif. The other divisions are at Andrews AFB.

The resources office would probably be the first point of contact for a would-be contractor. It consists of: Directorate of Materiel; Directorate of Installations; Directorate of Procurement; Technical Services; Personnel; Operations; and Manpower and Organization. An Assistant Deputy Commander is charged with responsibility for contractual and technical services and would be helpful to the man with an idea.

The research engineering section would be another point of contact. It is the office which places most of the "pure" research contracts.



Procurement & Production, Missiles, FY 1960

How To Do Business With the Navy

Navy will spend over $6 billion in the next fiscal year. Here is a breakdown of those expenditures and tips to prime and subcontractors on how to obtain contracts . . .

FOR THE FISCAL YEAR 1959-60, the Navy plans procurement obligations totaling more than $6 billion. These contracts will involve everything the Navy needs from missiles, ships and planes to machined parts, food and clothing.

A breakdown of these planned expenditures shows the following major items:

Aircraft, $1.86 billion; ships, $1.7 billion; followed by various categories in the missile and rocket, and support systems areas—missiles, $716 million; electronics and communications, $318 million; construction, $266 million; miscellaneous procurement and production including target drones, machine tools etc., $96 million; production equipment and facilities, $26 million; and support vehicles, $30 million.

As with the Department of Defense and the other services, the two major approaches to selling to the Navy—whether it be hardware, supplies, equipment, missiles or support equipment, or research and development ability—are either as a prime contractor or as a subcontractor to a prime.

To obtain prime contracts, it is necessary to get on the bidders' lists for those items the company is qualified to produce. The Navy recommends reference to the booklet "How to Sell to Agencies Within the Department of Defense" which is available from the field offices of all the services. Major Navy field offices are the Inspectors of Naval Material located in 29 cities in all parts of the nation. The booklet covers both advertised and negotiated contracts.

If the interest is in the subcontract, it is necessary to get on the bidders' lists of the various primes. Lists of these primes also can be obtained from the Inspectors of Naval Material. The Navy recommends another booklet, "Selling to Navy Prime Contractors," NaVEXOS P-1030, as a source of information on procurement and production.

The third largest item in procurement obligations is for research and development work. Frequently such R&D contracts lead to production contracts.

These contracts usually are let by the interested bureau or office of the Navy on a competitive basis to the firm best qualified to do the work at the lowest cost. Detailed information may be found in two publications: "The Office of Naval Research Contract Research Program," which is available from the Chief of Naval Research, Department of the Navy, Washington 25, D.C.; and "Inventions Wanted by the Armed Forces," published by the National Inventors Council, Office of Technical Services, U.S. Department of Commerce, Washington 25, D.C.

Another good source of information, the Navy says, is the Department of Commerce's "Daily Synopsis of U.S. Government Proposed Procurement, Sales and Contract Awards" which is available for a yearly subscription of $7.00 from the Commerce Department's Field Service, Administration Service Office, 433 West Van Buren St., Chicago 7, Ill.

During the past five years, approximately 20% of the Navy's domestic procurement dollar went directly to small business, with another 20% to small business in subcontracts. The Navy has a vigorous program to encourage small business—some 130 persons are primarily concerned with helping small business and are located in all major naval purchasing activities and in the Offices of the Inspectors of Naval Material.

One effective way to help small business is to set aside total procurements or parts of procurements exclusively for negotiation with small business. This is done generally when limiting of competition will not result in payment of unreasonable prices by the government.

In addition, the Navy Department in 1954, in cooperation with the Army, Air Force and other Federal agencies, developed the Industrial Assistance Program. Under this program, businessmen are advised of trends and needs of the services by means of procurement conferences, exhibits of items needed, and other activities to stimulate interest.

The coordination and direction of "material matters" in the Navy are the responsibility of the Assistant Secretary of the Navy (Material) assisted by the Chief of Naval Material. Under his guidance, the technical bureaus and offices are responsible for providing the Navy's needs.

Each of these offices or bureaus designs, procures, controls and maintains those segments of equipment coming under its particular cognizance.

This includes some 36,000 major end items such as ships, missiles, planes, communications devices etc., and more than 1,200,000 secondary supply items needed to support, operate and maintain the major equipment. This latter replenishable material includes 800,000 repair parts and 400,000 consumable and general supply items.

The Bureau of Aeronautics is charged with maintenance of superiority of the U.S. Navy in the air. In addition to the procurement of aircraft, BuAer is charged with procurement of the air-to-air and air-to-ground missiles. As with BuOrd, BuAer is interested in research and development work in its own field.

The Bureau of Ships is charged with design, building, conversion and altera-

tion of naval vessels, including the missile launching surface units and the submarines including *Polaris*.

The Bureau of Supplies and Accounts fills many needs throughout the Naval Service. The Bureau, through a network of more than 200 decentralized offices throughout the country, spends annually more than $2 billion to acquire more than a million items.

This procurement covers almost all categories of consumables, repair parts and technical items including electronics and special parts for guided missiles and support equipment including nuclear powered submarines for the *Polaris* missile system.

The Bureau is interested in expanding its procurement sources and encourages competition from both large and small business alike. It invites all qualified suppliers to have their names placed on the Navy's bidding lists. An information brochure can be obtained from the Bureau of Supplies and Accounts (Code OZ), Navy Department, Washington 25, D.C.

The Bureau of Yards & Docks has the responsibility for the construction and maintenance of the Navy's shore establishments. Also, through the Naval Civil Engineering Laboratory, Port Hueneme, Calif., the Bureau conducts broad research, development, testing and evaluation of methods, procedures, materials and equipment pertinent to its field of endeavor.

Civilian contractors interested in work for the Bureau, or inventors, researchers and others who wish to investigate possibilities or bid on work should contact one of the Naval District Public Works Offices located in various large cities.

The Bureau of Medicine & Surgery procures its supplies through a joint procurement agency—Military Medical Supply Agency, 84 Sands St., Brooklyn 1, N.Y.

The Office of Naval Research is responsible for sponsoring both basic and applied research. Its fields of interest to date include all the basic sciences such as physics, acoustics, chemistry, geophysics, electronics, mathematics, statistics, mechanics, systems analysis and others.

The Marine Corps., which is part of the Naval Establishment, through its Quartermaster General, procures electronics and engineering items, refrigeration and air conditioning equipment. Much of its procurement is carried out through contracting officers at the Marine Corps Supply Activity, 1100 South Broad St., Philadelphia, Pa.

The Navy's overall policy in procurement provides that research and development contracts be awarded on the basis of comparative technical ability in the specific science or technology involved in the work. Because of the exploratory nature of the work, and the uncertainties of successful accomplishment, cost-reimbursement contracts generally are used in this field.

Consequently, the award of such contracts normally is based on the comparative ability of the proposed contractors rather than on comparison of the estimated costs, since in cost-reimbursement contracts advance estimates of cost do provide a valid indication of the actual final costs.

So that there will not be unnecessary waste and cost involved, the Navy usually requests technical proposals only from firms which have been technically evaluated and believed qualified to do the work involved.

When applications are received, the Navy reviews the prospective contractor's management techniques, his compliance with the Department of Defense policies and thoroughly investigates the subcontracting plan.

Navy Purchasing Offices

Inspectors of Naval Material
50 7th St. NE
Atlanta 5, Ga.
Phone TRinity 6-3311 ext. 5593

Inspectors of Naval Material
401 Walter St.
Baltimore 2, Md.
Phone PLaza 2-7900 ext. 2-8460

Inspectors of Naval Material
495 Summer St., Post Office Box 2276
Boston 7, Mass.
Phone LIberty 2-5100

Inspectors of Naval Material
181 Middle St., Jayson Building
Bridgeport, Conn.
Phone FOrest 8-2567

Inspectors of Naval Material
740 Main St.
Buffalo 2, N.Y.
Phone Washington 4400-4406

Inspectors of Naval Material
RCA Building, Front and Cooper Sts.
Camden, N.J.
Phone WOodlawn 3-8690

Inspectors of Naval Material
800 1st Ave. NE., Box 1510
Cedar Rapids, Iowa
Phone EMpire 4-0165

Inspectors of Naval Material
608 South Dearborn St.
Chicago 5, Ill.
Phone HArrison 7-9300

Inspectors of Naval Material
230 East 9th St.
Cincinnati 2, Ohio
DUnbar 1-2200

Inspectors of Naval Material
Ferguson Building, 1783 East 11th St.
Cleveland 14, Ohio
Phone CHerry 1-7900

Inspectors of Naval Material
1114 Commerce St.
Dallas, Texas
Phone RIverside 8-561, ext. 311

Inspectors of Naval Material
310 East Jefferson Ave.
Detroit 26, Mich.
Phone WOodward 5-0714

Inspectors of Naval Material
3802 South Calhoun St.
Fort Wayne 6, Ind.
Phone HArrison 4231

Inspectors of Naval Material
605 Stewart Ave.
Garden City, Long Island, N.Y.

Inspectors of Naval Material
318 East 10th St.
Kansas City 6, Mo.
Phone BAltimore 1-700

Inspectors of Naval Material
1206 South Santee St.
Los Angeles 15, Calif.
Phone RIchmond 9-4711

Inspectors of Naval Material
783 North Water St.
Milwaukee 2, Wis.
Phone BRoadway 3-5901

Inspectors of Naval Material
U.S. Courthouse, 3rd St. and Marquette Ave. South
Minneapolis 1, Minn.
Phone FEderal 2-3244, Ext. 157-159

Inspectors of Naval Material
Naval Industrial Reserve Shipyard Building 13, Port Newark
Newark 5, N.J.
Phone MItchell 3-5700

Inspectors of Naval Material
207 West 24th St.
New York 11, N.Y.
Phone WAtkins 4-5000

Inspectors of Naval Material
17 Brief Ave., Upper Darby, Pa.
Philadelphia, Pa.
Phone GRanite 4-4840

Inspectors of Naval Material
401 Old Post Office Building
Pittsburgh 19, Pa.
Phone EXpress 1-2560

Inspectors of Naval Material
10 North 8th St.
Reading, Pa.
Phone Franklin 4-5194

Inspectors of Naval Material
321 U.S. Customhouse (Old), 815 Olive St.
St. Louis 1, Mo.
Phone MAin 1-8100

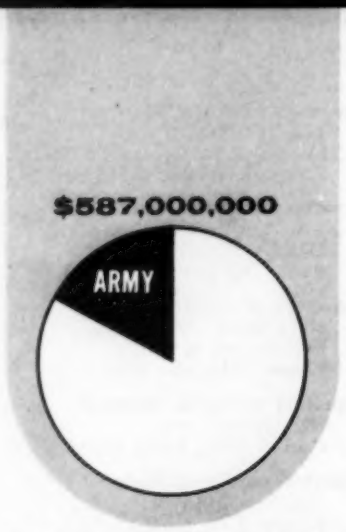
Inspectors of Naval Material
Building 178, Treasure Island
San Francisco 19, Calif.
Phone EXbrook 2-3931

Inspectors of Naval Material
Post Office Box 1085
Schenectady 1, N.Y.
Phone DIckens 6-8476

Inspectors of Naval Material
2300 11th Ave. SW
Seattle 4, Wash.
Phone ELliott 8800

Inspectors of Naval Material
Post Office Building, Room 310
Springfield, Mass.
Phone REpublic 9-7391

Inspectors of Naval Material
428 South Warren St.
Syracuse 2, N.Y.
Phone GRanite 4-6861



PROCUREMENT & PRODUCTION, MISSILES, FY 1960

How To Do Business With the Army

This article show the businessman how he can get part of the Army missile dollar. Included also is a list of current Army missile and rocket systems and their prime contractors . . .

THERE ARE two basic ways for a businessman to get a part of the Army missile dollar. One way is get a contract to do certain research and development work, or as the prime contractor for a missile or system. The second approach—and the one through which the greater part of the business volume is channeled—is as a subcontractor to a prime or as a supplier of parts, components or services.

The prime contractor who gets a research and development contract, usually for an entire missile system, is responsible for the initial production of all system components including the missile, launching and handling equipment, guidance, documentation and test equipment. While the prime has the overall responsibility, in most cases the dollar volume of the subcontracted components far exceeds the value of the components manufactured directly by the prime contractor. This, naturally, depends on the capabilities of the prime and the scope of the entire system.

Selection of a Contractor

Selection of a contractor for production of a missile system or components is achieved through formal advertising and negotiation. Selection is based on a number of criteria including production capability, reliability, costs, quality of the company's commercial or military products, and specific production requirements for the particular item being considered.

Consequently, it is important that the Army know what each industrial firm can do. The overall responsibility for the Army missile program has been assigned to the U.S. Army Ordnance Missile Command, Redstone Arsenal, Alabama, under the jurisdiction of the Chief of U.S. Army Ordnance Corps. The Army Ordnance Missile Command (AOMC) maintains a source file on industrial firms.

Those interested in doing business with the Army should supply the following information: name and type of company; total number of employees including research scientists and development engineers or other technical personnel; plant space and equipment including laboratory equipment and other facilities for research and development work; security clearance if a "facility clearance" is held for Army, Navy or Air Force work; general information on engineering capability and commercial and defense products; financial statement and descriptive brochure or any other information which would help in determining the full capability of the company.

Regional points of contact are provided by the 11 Ordnance Districts (see listing). Each of these districts maintains lists of items to be procured. AOMC normally requests the Ordnance Districts to secure quotations when a supplier of missile items is to be selected. After evaluation and bids, AOMC will request the District to prepare a contract with the selected supplier.

While contract administration always is the responsibility of AOMC, under certain circumstances procurement may be allocated directly to the Districts for selection of suppliers and contractural action.

An interested contractor or supplier is given an opportunity to review such research and development drawings and specifications are obtained before submitting formal proposals or bids. This information can be had from the 11 District Offices. A security clearance may be required to obtain this information and details as to subcontracting possibilities. It is of prime importance that prospective Army contractors and suppliers maintain contact with the Ordnance District Offices.

By its very nature, the procurement of guided missile systems and the replenishment of spares, is different from procurement of other items. Frequently, urgency of the program will not permit normal competitive procedures until late in the program. The more information the District Office and AOMC has on a company, the better its opportunities for selection.

New Army Procedures

The Army welcomes ideas for new weapons and material items voluntarily generated by industry and civilian organizations. However, there have been cases where costly voluntary efforts resulted only in disappointment because the ideas were not sufficiently compatible with the factors which must be considered by the Army.

To assist prospective contractors, the Ordnance Corps has published Order 7-58 which establishes some new procedures to aid in the availability of information as to what new items the Army would like to have developed. Any interested U.S. civilian organization which has a suitable R&D capability, has the necessary clearances and has signed the policy agreement form can now obtain information on what the Army wants.

The required Policy Agreement form may be obtained from the district offices. If the company already is working with Ordnance on an R&D type contract, queries may be submitted directly to the Ordnance Commodity Command or the Commodity Arsenal with which it has been dealing. This is because they already are familiar with the company's capability. Where such

work is not in progress, or the company wishes to expand into areas not covered by current contracts, the query should be submitted directly to the nearest Ordnance District Office. The District Office will then advise as to how to become a qualified organization and put the company in touch with the proper Commodity Command or Commodity Arsenals.

Normally, development requirements information will be released only from the Ordnance Commodity Commands and Arsenals. This may be done by means of interviews, group briefings, distribution of written documents, or by correspondence. However, for the present, it is anticipated that group briefings will be the principal method.

Inasmuch as a missile system in its final operation draws on practically every agency and corps of the Army, business opportunities in support of the missile program can be developed through other units, as well as the Ordnance Corps. For information as to the proper agency for R&D work, queries should be submitted to the Office of the Chief, Research and Development, Department of the Army, Washington 25, D.C., Attn.: Technical Liaison Office. This office maintains a list of items and activities with which each of the technical services and commands of the Army is concerned.

Such proposals should be complete and concise with full information on the proposing firm and a discussion of the proposed work in terms of objective and scope.

If the proposal is accepted, a contract may be negotiated between the organization and the apprpopriate agency. If it is not accepted, the government is not obligated in any way to reimburse the firm for costs it might have incurred in submitting the proposal or seeking the contract. Corps, and their fields of endeavor include:

Corps of Engineers—most of the support equipment for missile systems, rockets and satellite programs. This involves a variety of work such as: construction and maintenance equipment; launching towers; cover and concealment of weapons; electrical equipment such as generators and convertors; fire-fighting equipment; industrial engines including turbines; industrial gases and compressors; infrared and night vision equipment; liquid fuels distribution; mapping, geodesy and surveying materials; nuclear power and heating plants; prefabricated buildings and other areas of interest.

Ordnance Corps—in addition to weapons, Ordnance has cognizance of fire control equipment and material; fuels and lubricants.

Quartermaster Corps—chemicals and plastics; environmental protection; individual clothing and equipment which should become more important with the development of nuclear power for missiles and the attendant hazards of radiation and decontamination; mechanical equipment; and test materials and techniques.

Signal Corps—avionics; electronic countermeasures; electronic data processing systems; infrared, ultraviolet, meteorological instrumentation; radar; radio and wire communications; radio direction finding; sound, and light and television.

Transportation Corps—air, marine, motor and rail transportation.

Chemical Corps—biological agents; chemical agents; incendiaries; protective equipment; screening agents; smokes, weapons.

Army Medical Service—all basic research in medical sciences.

For research in areas of personnel training, motivation and leadership, the Army has the Human Resources Research Office in Washington.

The current list of Army missile and rocket systems and their prime contractors include:

Corporal—Firestone Tire & Rubber Co. (missile and ground handling equipment), Gilfillan Brothers, Inc. (ground guidance equipment).

Hawk—Raytheon Manufacturing Co.

Jupiter—Army Ballistic Missile Agency (missile system) and Chrysler Corp. (missile fuselage and assembly and ground equipment).

Honest John—procurement responsibility for this rocket, with the exception of the fins and warhead compartments, has been transferred to the Commanding General, U.S. Army Ordnance Ammunition Command, Joliet, Ill. Ground equipment is under the authority of the Commanding General, U.S. Army Ordnance Weapons Command, Rock Island, Ill. Fins and warhead compartments are under Emerson Electric Mfg. Co., one of the prime contractors.

Lacrosse—Cornell Aeronautical Lab., and The Martin Company.

Nike—Western Electric Company; Goodyear Aircraft Company and Borg Warner Corp. (solid sustainer motor booster motor). Procurement of booster motor metal parts is the responsibility of the Commanding General Army Ordnance Ammunition Command, Joliet, Ill.

Pershing—The Martin Company.

Plato—Sylvania Electric Products, Inc.

Redstone—Army Ballistic Missile Agency and Chrysler Corp.

Sergeant—Jet Propulsion Laboratory (missile system) and Sperry Utah Engineering Lab. (all critical R&D components).

The Army has issued a statement which reads:

"It seems quite clear that a company which aspires to become an important factor in the guided missile industry in the role of a prime contractor should strive to attain a position of being able to assume full responsibility for system development and program management. The smaller company would do well to concentrate on superiority of individual components so that their reputation for reliability, superior performance, and better cost will lead prime contractors to their door."

The Ordnance Districts

Birmingham Ord. Dist.
2120 No. Seventh Ave.
Birmingham, Ala.
Birmingham 53-3421

Boston Ord. Dist.
Boston Army Base
Boston 10, Mass.
Liberty 2-6000

Chicago Ord. Dist.
209 W. Jackson Blvd.
Chicago 6, Ill.
Webster 9-6000

Cincinnati Ord. Dist.
Swift Bldg., 230 E. 9th St.
Cincinnati 2, Ohio
Dunbar 1-2200

Cleveland Ord. Dist.
Lincoln Bldg., 1367 E. 6th St.
Cleveland, Ohio
Tower 1-4960

Detroit Ord. Dist.
574 E. Woodbridge
Detroit 31, Mich.
Woodward 5-3720

Los Angeles Ord Dist.
55 S. Grand Ave.
Pasadena, Calif.
Ryan 1-8471

New York Ord. Dist.
770 Broadway
New York 3, N.Y.
Oregon 7-3030

Philadelphia Ord. Dist.
128 N. Broad St.
Philadelphia 2, Pa.
Locust 8-0400

St. Louis Ord Dist.
430 Goodfellow Blvd.
St. Louis 20, Mo.
Evergreen 2-8200

San Francisco Ord Dist.
1515 Clay Street
P.O. Box 1829
Oakland 12, Calif.
Twin Oaks 3-6330

Ernest Brackett
Director of Procurement and Supply

How To Do Business With NASA

National Aeronautics and Space Administration was added this year to the list of contracting agencies in the missile business. Outlined here are some of NASA's procurement procedures . . .

ANOTHER NAME has been added this year to the list of contracting agencies in the rockets and space development field. Under the National Aeronautics and Space Act of 1958, signed into law by the President July 29th last year, the charter and responsibilities of the National Advisory Committee on Aeronautics was expanded. NASA was given the overall responsibility for the nation's space program which the Act stated "should be devoted to peaceful purposes for the benefit of all mankind."

Generally speaking, NASA procurement follows the provisions of the Armed Services Procurement Regulations. This normally is by formal advertising for competitive bids where the supplies, materials, equipment or construction work can clearly be defined in drawings or specifications. However, in the case of research and development and other instances where such specification is not feasible, procurement is through negotiation with qualified firms.

The greater part of the procurement and contracting for services is carried through the field stations. However, any contract in excess of $25,000 must be countersigned by the NASA headquarters. All contracting negotiation and administration is performed via the field stations except in certain cases when the items or work sought does not fall specifically under the cognizance of one of the field stations.

NASA normally negotiates its own contracts with prime contractors. This is done directly with the contractor by NASA's own staff for contract negotiation and administration. A flexible procedure is employed which permits use of the services of the Department of Defense or other governmental agencies, as NASA sees fit. NASA's own technical direction, including project officer supervision, for all prime contracts is used except for standard hardware items more easily obtained by extension of already existing military contracts.

The actual level within the NASA organization responsible for the detailed technical direction and execution of the particular project negotiates with research and development contractors.

To the maximum extent possible, small business is given opportunity to participate in supplying NASA's supplies and services.

For actual procurement, NASA employs a decentralized system. This means that all equipment and supplies needed by a NASA field station are procured by the procurement officer at that station. Each of these procurement activities maintains its own bidders list, and should be contacted by those wishing to participate in NASA's procurement (see listing).

Advertising Procedures

In the case of purchases by formal advertising, strict adherence to a prescribed procedure is followed. At a specified time bids are opened and the bid most advantageous to the government is accepted. Upon award, the accepted bid becomes a legally binding contract.

When formal advertising does not meet the needs of NASA, procurement by negotiation is permitted. This method is when experimental, developmental or research work is involved or the urgency of the situation demands it. However, it is the policy of NASA to assure full and free competition as far as possible. Award in such cases is made in the best interest of the government considering price, delivery, quality of the product and other factors based on the original proposals or negotiation.

NASA reminds would-be contractors preparing their bids to watch for special conditions relating to materials, packing, packaging and delivery which may vary from the standard printed instructions. Any bid which does not conform to the requirements of the invitation for bids will be rejected. All bids may be rejected when rejection is in the interest of the government, or when the contracting officer does not consider the bids reasonable nor arrived at independently, or feels they are collusive or in bad faith.

Generally speaking, NASA employs the fixed-price contract for both advertised and negotiated procurement. Certain variations of the fixed-price contract is used for price redeterminations where the performance of the contract may involve large contingencies or uncertainties in costs.

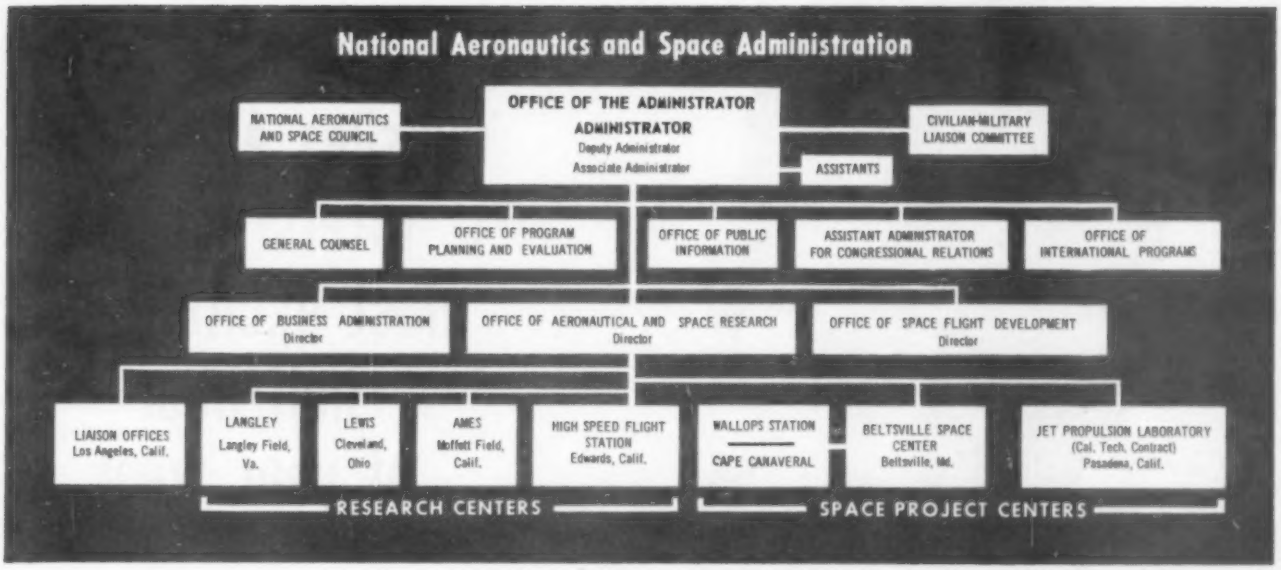
Cost-reimbursement contracts are reserved for certain situations and may be awarded with or without a fee. In emergencies, or under unusual circumstances requiring maximum reduction of procurement lead time, letter-of-intent contracts enable the contractor to begin work pending negotiation and execution of the actual contract.

Cost - plus - percentage - of - cost contracts are prohibited by law.

Although contractors are expected to be fully qualified and competent to carry out the contract including the financial requirements, when such work will result in serious drain of the contractor's working funds, the government may provide financial assistance.

In addition, the Small Business Administration can grant loans to small concerns for the financing of plant construction, equipment or for use as working capital.

NASA recognizes the increasing



use of quality control techniques by industry and emphasizes the importance of quality in all supplies and parts used in the highly complex space vehicles and equipment. Before materials are accepted, they are subject to inspection for compliance with contract specifications.

As with the military services, frequently a facility clearance is required for NASA contracts. This is necessary whenever access to classified matter is required either by the contractor or his employees. Subcontractors on classified projects should obtain a facility security clearance via the prime contractor.

Most of the supplies purchased by NASA conform to the federal or military specifications on quality, size, performance etc., available from the Government Printing Office.

As with other government agencies, it is the policy with NASA to include in contracts involving employment of labor, a provision obligating the contractor not to discriminate against any employee or applicant for employment because of race, religion, national origin, or color.

NASA points out that in research and development work especially, the competence of a firm is not always determined by its size. Contracts for R&D are awarded on a basis of highest competence in the specific branch of science or technology required for successful execution of the project.

In addition, NASA each year lets a number of research grants and contracts to educational institutions and non-profit organizations. These contracts involve research of two general types—supporting research and fundamental research. Research proposals should be submitted (10 copies will facilitate evaluation) to the National Aeronautics and Space Administration, 1520 H. St., N.W., Washington 25, D.C. marked for the attention Research Grants and Contracts Office. All such contracts are handled by the NASA headquarters and not by any of the field stations.

While bona fide representatives are permissible, the "Covenant Against Contingent Fees" clause included in all NASA contracts is warranty by the contractor that he has not retained other parties in soliciting or securing the contract. Breach of this warranty may result in an annulment of the contract or recovery by the government of the amount of fee already paid. Employees or established commercial or selling agencies maintained by the contractor to secure new business can represent the firm.

List of products—A representative list of items and supplies procured by NASA follows:

Abrasives; Air Conditioning Equipment and Supplies; Aircraft Maintenance Equipment and Supplies; Building Materials; Castings; Chemicals; Chemical Laboratory Equipment and Supplies; Clothing, protective; Communications Equipment; Data Recording and Processing Equipment; Drafting and Illustrating Equipment and Supplies; Electrical Maintenance Shop Equipment and Supplies; Electrical Power Distribution Equipment and Supplies; Electronics Hardware and Supplies; Electronic Instrumentation Equipment; Electronic Test Equipment; Forgings; Foundry Supplies; Gases, compressed; Gases, liquefied; Hardware, all kinds; Janitorial Supplies; Lumber; Machine-shop Services; Materials Handling Equipment; Materials Testing Equipment; Mechanical Power Transmission Equipment; Metal Fabrication Services; Metal Finishing Equipment and Supplies; Metal Heat Treating Equipment and Supplies; Metals, ferrous; Metals, non-ferrous; Metals, precious; Metalworking Equipment and Supplies; Missile Structural Components; Office Equipment and Supplies; Offset Printing Equipment and Supplies; Oils and Greases; Paints; Painting Equipment and Supplies; Photographic Equipment and Supplies; Plastics Materials; Plastics-working Equipment and Supplies; Plumbing Supplies; Pressure Systems and Equipment; Pressure Vessels; Reproduction Equipment and Supplies; Safety Equipment and Supplies; Shop Furniture; Telemetry Equipment; Vacuum Systems and Equipment; Welding Equipment and Supplies; Weldments; Wind Tunnel Instrumentation Equipment and Supplies; Woodworking Equipment and Supplies.

Representatives of the Contracting Officer on Construction Projects

Mr. J. Cabell Messick
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Langley Research Center
Langley Field, Virginia

Mr. Charles A. Herrmann
Chief, Technical Services Division
Lewis Research Center
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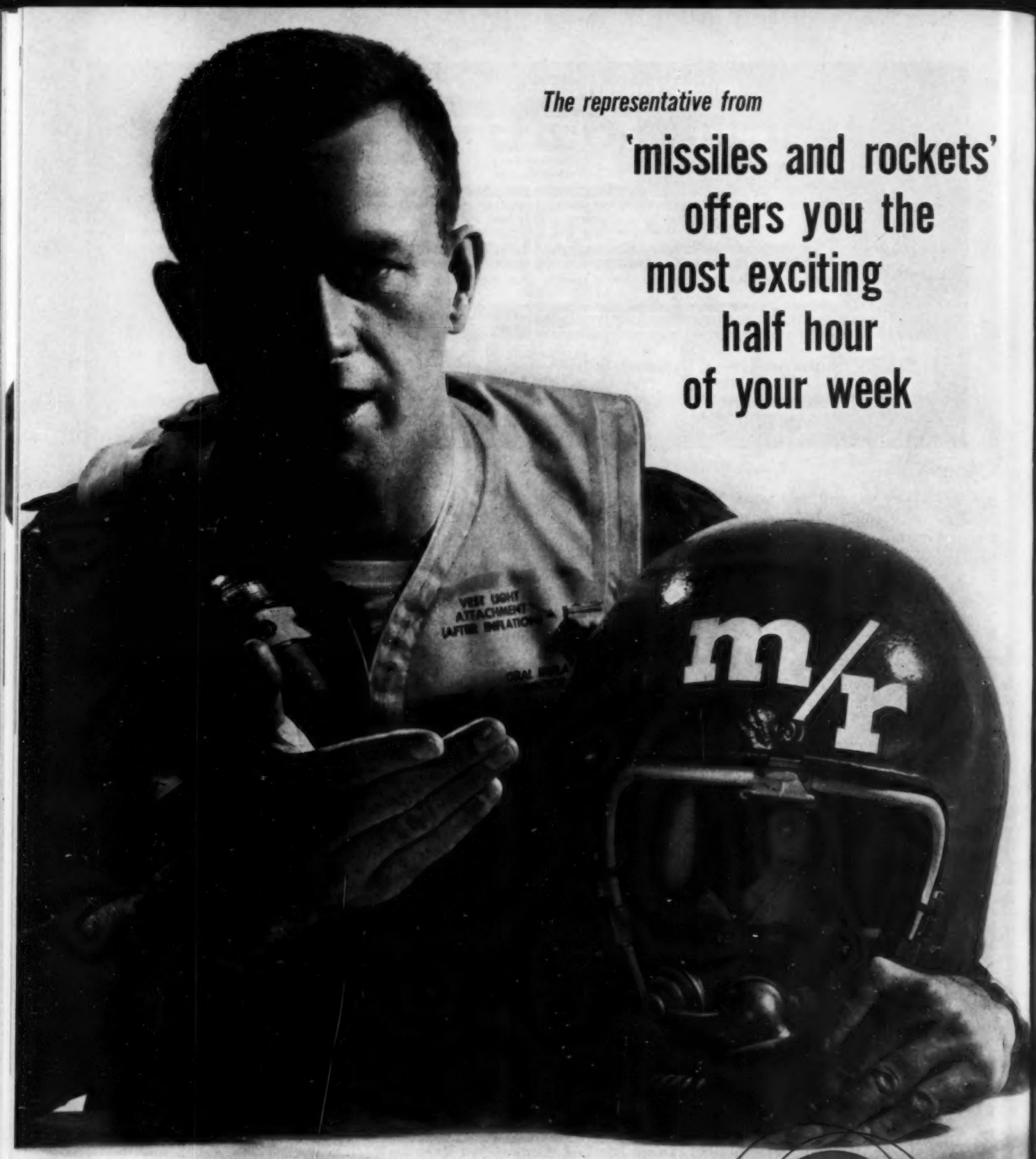

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What a Prime Seeks from a Sub

A prime contractor official describes the weapon system concept and explains what a weapon system contractor expects from the suppliers . . .

by Rulon Nagely
Corporate Director, Material
North American Aviation, Inc.

THE RELATIONSHIP between a weapon system contractor, and his suppliers and subcontractors is perhaps one of the most important elements in today's defense picture.

A well-established, smooth working relationship can lead to increased production efficiency and can save the government thousands upon thousands of dollars. On the other hand, poor coordination between the key organizations can only result in wasted time and effort, financial loss and, in extreme cases, perhaps could lead to the elimination of the particular weapon system involved.

To fully understand the problems involved, it is important to first understand the method of procurement which is described as "the weapon system concept." Historically, the various military contractors, particularly those doing business with the Air Force or the Navy, were responsible only for the design and production of the primary piece of equipment. In the case of aircraft manufacturers, this was the airplane itself; the Government furnished such items as engines, wheels, brakes, instruments, radar equipment, gyros and so on.

Only occasionally was the contractor involved in the selection of these items.

The concerned government agency, in effect, acted as weapon system contractor, utilizing a number of subcontractors to furnish the necessary components which when assembled, became a finished, flyable airplane.

The system had certain advantages, not the least of which was that the prime manufacturer was absolved of the thousands of details—and the resultant headaches—that go with the procurement of the many pieces that make the whole.

Time for a Change

However, there were many more, and overriding, disadvantages. All too often the airplane manufacturer found that a vital equipment item would not work properly, or was incompatible with the balance of the system; making the necessary adjustments often delayed the whole program. Delivery schedules were not always as well planned as they should have been. Making major design changes while in the middle of a contract was very difficult and was often expensive because some completed hardware was no longer usable, but had to be paid for.

Where did the fault lie? In few instances could the responsibility be pinpointed to any one group, company or agency. Since there was no clear-cut line of responsibility, confusion and difficulties were unavoidable.

With the advent of the space age, it became increasingly obvious that the problems encountered through this procedure must be eliminated. The newer weapons then envisaged demanded the most exacting coordination and cooperation throughout the defense industry, and required a pooling of the most advanced scientific knowledge, the most specialized technologies, and the newest industrial skills.

The result: the so-called "weapon system concept."

Under this procedure, the prime contractor is held fully responsible for the success of the program, with only a very few, if any, items being furnished by the contracting agency. It is up to the contractor to find the proper equipment item for a given task, to see that delivery schedules are met, and that a high standard of quality, engineering and reliability is maintained. It is up to the contractor, also, to make certain that costs are held within prescribed limits and a very close cost control is

Rulon Nagely, Director of Material for North American Aviation, Inc., was promoted to his present position in 1951 from Purchasing Agent. He joined North American as Purchasing Agent in 1941.

Nagely first entered the aircraft industry in 1937 as purchasing agent for Vultee Aircraft Co., where he remained until 1941.

Nagely is Chairman of the Aerospace Industries Association's Materials Committee and is a member of the U.S. Air Force Advisory Group-Small Business.

maintained by the weapon system contractor.

In the case of today's complex weapons, these procedures involve far more than just selection and purchase; in many, if not most, instances the needed systems and subsystems are nonexistent. The contractor must first determine exactly what is required, he then must not only find the proper company to develop the item, but must also expend considerable effort of his own in assuring that the development process results in getting the right item on schedule and at a minimum expense.

North American Aviation is now weapon system contractor for two major weapon systems, the B-70 Valkyrie, intercontinental jet bomber, and the F-108 long-range jet interceptor. Both are designed for high altitude performance in the Mach-3 range. Under the latter two programs, the only items furnished by the Government are the engines; all other items, including fire-control flight control, mission and traffic control, electronic countermeasure and bombing-navigation systems, as well as other equipment that formerly would have been government-furnished equipment, are now North American's responsibility. We are charged with selecting, ordering and coordinating the manufacture of all the various components and subsystems which will go in to the B-70 and F-108. Moreover, we are also responsible for the ground-handling equipment, servicing equipment and everything else necessary to make the complete weapon system operate properly.

There should be no misunderstanding: the government is still deeply concerned with these programs and through the concerned weapon systems project offices keeps a close and constant watch over what we are doing. However, the responsibility is North American's.

Criticism of Procedure

There has been some criticism of the weapon system procedure, most of it on the basis that costs will increase and that small business will be squeezed out of the picture.

As to the first charge, we fully believe that is an unfounded fear. It is true that some of today's projects are staggeringly expensive as compared with World War II weapons; this is due to the increased complexity of the systems, not to the change in procurement procedures. Additionally, costs under the weapon systems concept can actually be determined and controlled because they are in one spot; previously, these costs were scattered over so many areas, and through so many agencies and companies, that it was almost impossible to determine and control the true and absolute cost of any single completed aircraft.

As to the second fear, we know that there is no basis for its existence. The small businessman will continue to play a vital role in the procurement picture and indeed, may even have increased opportunities for business. The business is still there, and the small businessman will get his share.

Changes in the System

The only basic change is that he will be dealing at a different level; in most instances, he will contact, or be contacted by, a prime contractor rather than a weapon system contractor.

The latter—whether one company or as in the case of some weapon systems, a group of related companies—will simply have moved up a rung on the ladder. The weapon system contractor will be handling most of the duties heretofore handled by the services, the major subcontractors will have replaced the prime contractors in certain procurement situations, and so on.

This means, of course, that the weapon system contractor will not have as much direct contact with the small business firm as has been customary in the past.

The size and scope of today's weapon systems demands that a greater portion of the business be subcontracted with major manufacturing concerns than in the past. It is doubtful that any one company in this country could handle as much as one-half the work involved in the design, development and production of a major modern weapon system.

For example, in the case of the B-70, we have named Boeing Airplane Co. as the subcontract for a wing section. This particular subcontract involves considerable engineering and design effort, as well as actual manufacture. It could not have been handled by a small concern and still have met design requirements and delivery schedules.

Boeing, in turn, will subcontract many of the items that will make up this section—and this is where small business will get its share of the program.

Other major subsystems are being handled in the same manner.

North American has taken several steps to insure that small business does, in fact, participate.

We require our suppliers, on every purchase order or subcontract of $100,000 or more, to supply us with a quarterly report on his small business subcontracting; he in turn must insert a similar requirement in all of his purchase orders and subcontracts in that amount.

We notify the regional office of the Small Business Administration, as well as the Small Business Specialist of the appropriate branch of the Armed Services whenever a purchase order or subcontract is let that appears to offer opportunities for small business participation.

Each of our buyers is required to make a "small business checklist" on each purchase, showing whether the order went to large or small business, and if the former, whether small businesses were solicited and why they did not get the order.

Through these and other procedures, we are confident small business will get its fair share of the work on these weapon systems.

Approximately 80 per cent of the work on the B-70 and F-108 will go to other companies, most of whom would be prime contractors to the government in a different situation. These companies will continue to let at least the same amount of work to smaller concerns as they did in the past.

These procedures, while established by North American for specific programs, are essentially the same as will be followed by other weapon system contractors. The details may differ, but the basic philosophy will be the same, if for no other reason than the complexity and size of the programs now being conducted.

Position of Contractor

It is readily apparent that the weapon system contractor is placed in a peculiarly vulnerable position. Holding a tremendous responsibility for success of an expensive program of great importance to our defense picture, he is at the same time cut off from direct contact with many of the people who could increase costs or otherwise cripple the program.

The weapon system contractor must, therefore, be very demanding in his relationships with the immediate subcontractors and suppliers. He must establish firm ground rules for operation, must make certain that all requirements are met, and must be ready to insist on competent performance on the part of both his own subcontractors and those companies on the third and

fourth tiers of effort.

The weapon system contractor must supervise and control the cost and the progress of all work, and periodic reports on these items from subcontractors are a necessity.

Examination of these reports might indicate inefficiencies or schedule slippage. In such a case, the contractor must be prepared to take any steps necessary to correct the situation.

Quality Control

Quality control is extremely important, and here, too, the controller must be vigilant. The subcontractor is, by virtue of his role, primarily responsible for high standards of workmanship. Where quality is not up to par, the weapon system contractor must reserve the right to be arbitrary in demanding rework or, if necessary, rejection. Within the limits of sound working relationships, he must have the right to supervise the quality control procedures established by the other company.

And finally, the weapon system contractor must make certain that there is fast, clear, and accurate communication, not only with the subcontractor, but also between that organization and the others participating in the program. Red tape must be kept to a minimum, and decision-making must be prompt. This is a two-way street, and the weapon system manager has an equal responsibility to his subcontractors to provide fast and accurate information regarding changes of any kind.

The objectives of a particular weapon system program can only be met if this pattern is established at the beginning of the program and maintained to its completion. There must, naturally, be a certain amount of give-and-take on both sides, but essentially, the subcontractor must recognize that ultimate responsibility rests with the weapon system contractor, and that his demands must be met if the program is to succeed.

Working Relationship

This is the same businesslike relationship that should exist between two companies under any procurement system. The difference lies only in the size and complexity of today's weapon systems, and the increased responsibility that falls upon the weapon system contractor.

If these requirements are understood by all parties, and followed from the initial steps in contract negotiation, then there can be assurance that the government and the citizen will receive what is justifiably their due: a reliable, high-performance weapon system, delivered on time and at a minimum of cost.

★ ★ ★

What a Sub Seeks from a Prime

Profit is not the only thing the subcontractor seeks when he does business with a prime. Recognition of quality, courtesy, and fairness are major needs, says this defense industry expert . . .

by John Marschalk

THE NUMBER ONE thing a sub seeks from a prime is a chance to make a profit on quality work. Most primes recognize that a subcontractor has to make a profit to deliver a quality product and stay in business.

This means that *recognition of quality* is next to the top of the list of what a competent subcontractor wants. Years of operation with minimum rejection rates and prompt deliveries ought to mean more than lowest initial price, most qualified suppliers believe. And experienced buyers usually agree. With the heavy emphasis on reliability of supersonic weapons, this would seem to be the only way to buy. Even so, there are many do-good-to-small-business people who keep insisting that award to the lowest bidder (regardless of relative quality) is the "American way" to buy.

Competitive bidding on price alone may be completely satisfactory on common supply items like rope, nails and paper clips—where specifications can be fixed for a period of years. But the firms who work on the technical components of weapons think a low-price award is the certain way of assuring either default or poor quality.

I can think of no better word than "courtesy" for another want expressed time and again by small subcontractors with whom I've talked. They tell me that too many buyers take on a "power-of-God" attitude when dealing with representatives of smaller firms. It is human, I guess, to think of one's

John Marschalk, a public relations consultant, has specialized for the past fifteen years in the problems of industry dealing with Government. Until recently, he was executive director of Strategic Industries Association, a national trade group of small and independent firms in the defense supporting industry.

self as being pretty important when the control over several millions of dollars worth of purchasing is involved. The fellow from the small firm who wants to talk about an order for $3,000 is likely to seem relatively unimportant in the midst of such grandiose activities.

Here, again, the experienced buyer knows that the fellow from the small firm may have something to offer which can save both the prime and the Government millions of dollars and maybe thousands of lives. As the Director of Material for one large company told me recently, "A buyer has to know a little bit about a lot of things. The people he buys from need to know a great deal about just a few things. We try to teach our buyers to listen. They buy better that way."

The most common and costly discourtesy to a small firm representative is to keep him waiting for an hour or more after an appointment time. Frequently the small firm caller is either head of his company or close to it. Every hour he spends away from his plant is a costly deduction from management time. Yet it is his personal know-how which the buyer needs most. He is the one person who can readily interpret buyer needs in terms of his shop's capacity.

To make the small firm representative drive for an hour to the prime plant, park in a lot a half mile from the buying office, and then cool his heels for an hour-and-a-half before getting a three-minute brush-off from a self-important buyer, is about the poorest way to treat a fellow human being, let alone the waste involved.

Fair Return for Design

Finally, among the things small subcontractors want is a fair return for design effort. A common practice with some prime buying departments is to put out an "envelope" specification, asking several subs to submit a design for a component to do a certain job with size and weight limitations. Each sub is expected to submit his design for evaluation, plus a price proposal for doing the work.

When the engineers at the prime choose what they think is the best approach you expect them to negotiate with the firm that submitted the best design. Most companies do handle it that way. Some of them don't. Some take the winning design, copy it and send it out for bids from other companies. If the company that submitted the best design isn't low bidder, he gets not a dime for his work. Worse than that, we know of a couple of classic cases in which the prime people said, in effect, "Thanks for the idea; now we know enough to make this ourselves."

The top managements of every prime we know have no patience with that kind of practice. It can almost always be traced to that rare small-minded individual who congratulates himself on pulling a fast one. To get such practices stopped is one of the main hopes of thousands of small suppliers.

Adding it up, there are four major needs on the part of most small subcontractors:

1) A *chance* to make a fair profit
2) Recognition of quality over price
3) Courtesy in handling contacts
4) Integrity in dealing

This is not much different from what the large firms want for themselves.

Why Subcontractors Go Gray...

"We have lost money on our subcontracting for the past two years in a row. If it were not for our coupling sales, we would be out of business."

The man who told me this two months ago heads one of the most experienced and reliable small subcontract firms in New York State. As an individual, he has spent more than twenty-five years in defense manufacture. He normally employs about 125 people; his shop is rated A-1 on quality and reliability by many major prime contractors for whom he has been a supplier since World War II. Yet he has kept "alive" only through his sales—mostly commercial—of a small proprietary item.

Why has he taken orders at loss figures for the past two years? His answer is simple: "You owe something to your people; if it isn't *too* much of a loss, we'd rather keep them working."

Losses are less than fun for any businessman. But what really gets under this particular subcontractor's skin is the conviction that more than a few buyers with whom he deals enjoy the situation. He described the method used by one large company not far from his plant.

"They have a bidding system. When a job comes up, they send out bids. They claim all their bidders have been qualified to do the job, one no better than another. My company has the lowest rejection rate you can find, but we start out bidding against other outfits who have nowhere near our quality record. So we know we're going to have to shave to the bone to get close.

"So our engineers spend a couple of days analyzing the prints, working out production methods, preparing our bid. This costs a lot of money, in itself. Sometimes it can pay off, though. Sometimes we find a real good way to cut production cost, so the bid we send in is lower than we expected we could do. Maybe it even turns out we're the low bidder.

"But there's a hitch. They don't take the low bid. First thing they do is send it to their Cost Analysis boys. They try to find some holes in it. Maybe they call me on the phone and argue I figured too much for machine set-up time or some other thing. Finally, I get a call from the buyer. Say I bid $250 apiece for each of twenty items. He tells me if I'll knock off $50 on each piece, they will give me the job.

"I tell them to go hang. But you know what? They'll start calling the other bidders with the same pitch until they find a sucker who will go along."

Although I heard the same story from two other New York subcontractors with whom I visited, I'm personally convinced that this squeeze system isn't common practice. I haven't run into it in other parts of the country and it may well be confined to the single prime about whom it was told. In the only other case I know of personally, a contracting officer for one of the military services bragged that he had saved over a million dollars for Uncle Sam in a single year by using this sort of system. When he was asked how many small companies had gone broke as the result, he just shrugged his shoulders.

—*John Marschalk*

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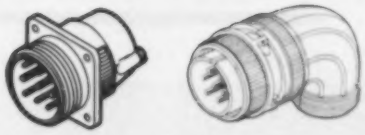
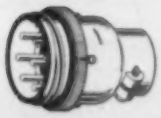
FOR EVERY CONCEIVABLE APPLICATION

AIRCRAFT AND ELECTRONIC INSTRUMENTATIONS—MS, MS-A, MS-B, MS-E, MS-R SERIES, conforming to Specification MIL-C-5015D. Vibration-proof—Lightweight—Plugs are available with from 1 to 100 contacts. 15 different insert diameters and 260 contact layouts. 6 shell styles, MS 3100 to MS 3108 with all accessories. Environmental-Resisting MS-E and MS-R Series have interfacial sealing at mating faces and integral grommet seal at wire entry plus—grounding lugs and integral cable clamp.



GENERAL CIRCUITRY AND QUICK DISCONNECT—K, RK SERIES, with special acme thread. The all-purpose series with eight insert diameters available. Conduit and cable clamp entry types. 1 to 110 contacts. 10, 15, 30, 40, 60, 80, 115 and 200 amp. silver plated contacts. High quality phenolic, melamine, and formica insulators. Cadmium-plated aluminum alloy shells.

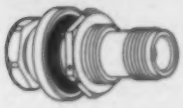


UNIT-PLUG-IN RACK/PANEL-DP, DPB, DPD, DPD2, DPD2R, DPJ, DPS SERIES, available with from 2 to 180 contacts in rectangular inserts. With and without shells; coaxial and high voltage contacts. Permit quick disconnect, interchange, replacement, testing, and inspection of assemblies and sub-assemblies.

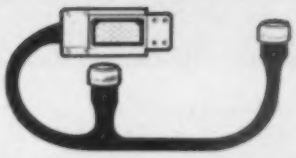
AUDIO AND LOW-LEVEL CIRCUITS—P, XLR, XK, O, UA, BRS SERIES, in many shell styles and insert layouts. Straight and 90° angles. Latch-lock types. Wall-mounting, panel, locknut mounting, and adapter receptacles, single and two-gang. 10 and 30 amp. contacts, coaxials.

MINIATURE AND SUB-MINIATURE—D, US, DPA, DPX, AND K-MINIATURE SERIES, designed for amplifiers, miniature indicators, computer circuits, telemetering equipment, and general instrumentation of limited space requirements. Variety of shell styles, junction shells, and insert arrangements. Available with from 2 to 50 contacts, plus coaxials.

COAXIAL RF SERIES—available in a wide range of Series and types from sub-miniature to large cable applications. New Cannon adapters available for use with latest cable developments. Cannon's latest RF Plugs include aluminum versions designed for use where weight-saving is a critical design criteria.



GM AND PLUG HARNESS SYSTEMS—Cannon produces a wide range of GM Plugs to fit specific missile applications, ranging from straight umbilical dis-connects to stage-separation dis-connects. Cannon also produces Plug Harness Systems featuring MS or other specified plugs and cables as one unit, available with various contact types and sizes. From 8 to 140 contacts. Highest quality and proven reliability. Varied remote disconnect methods actuated by hydraulic, pneumatic, explosive, or manual means.



The Cannon Electric Company also has available a wide variety of plugs for Battery-Power, Fire-wall, Watertight, Printed Circuit, and other applications, as well as "Kwik-Term" Terminals and DC Solenoids.

FOR ADDITIONAL INFORMATION on the typical designs illustrated . . . other configurations for your specific applications . . . or the design, engineering and manufacture to your special needs . . . write to Cannon Electric Company—3208 Humboldt Street, Los Angeles 31, California. Please refer to Dept. 0000.

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for airframe and missile applications

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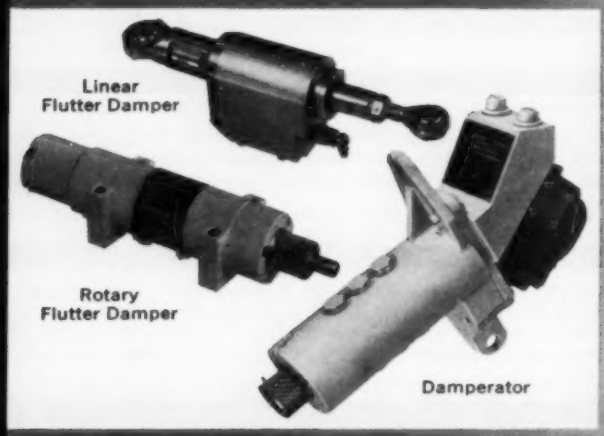
Direct rotary torque output from 200 to 600,000 inch-pounds. Optional vibration damping may be incorporated. Broad range of designs and sizes, for hinge-line mounting.

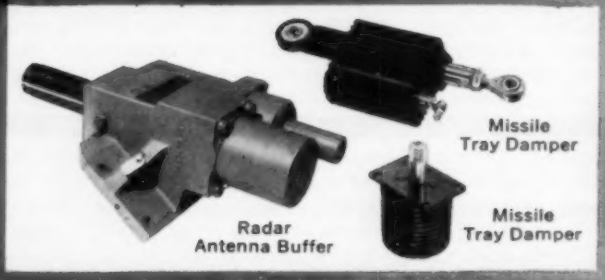


FLUTTER DAMPERS

Performance-proved by acceptance on leading high-performance aircraft and missiles. Linear and rotary types to meet any control surface application, any envelope requirement. New Damperator combines Flutter Damper and Rotary Actuator functions.

STEER AND SHIMMY DAMPERS

Constant-torque power steering units, combined with shimmy damping. May be mechanically or electrically controlled. Full 360° swivel optional. New Viscous Shimmy Dampers for limited-envelope applications.



SPECIALIZED DAMPERS AND BUFFERS

Hydraulic buffers, installed at limits of antenna travel, protect sensitive radar components from damage caused by over-travel. Specialized damping devices for missile handling equipment.

ONLY A SPECIALIST like Houdaille can meet your most exacting specifications for hydraulic or vibration-control applications . . . completely, economically. When *original* product designs are required, Houdaille engineers will evaluate your needs and develop the *right* component to solve any problem. Extensive precision manufacturing facilities assure delivery to meet your toughest schedules.

The items shown here are typical of recent Houdaille designs. Each is outstanding in quality, dependability and performance.

WRITE FOR TECHNICAL BULLETINS

on any of above products you are interested in, or for engineering assistance, send details of your problem to

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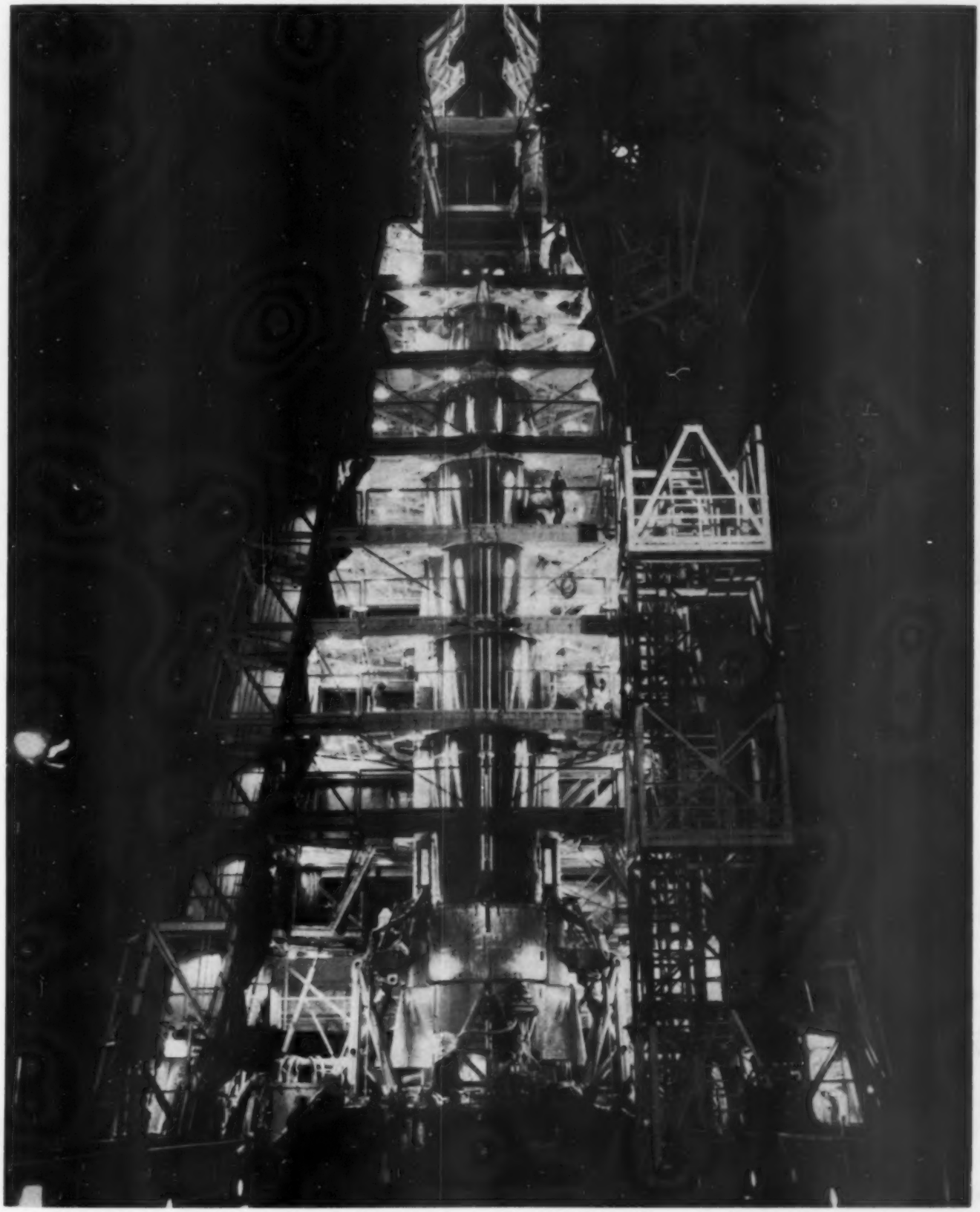
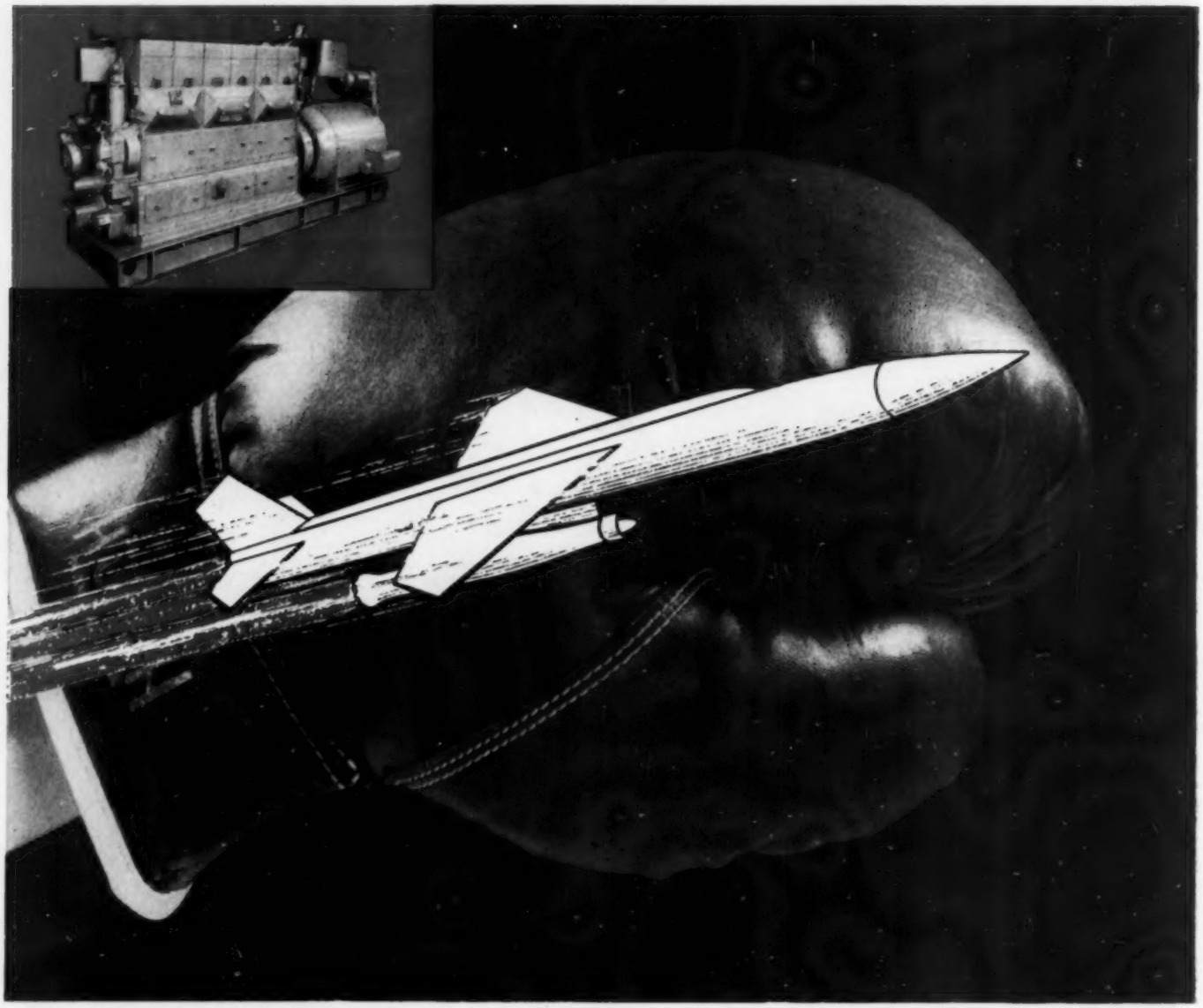
MISSILE FRAME, WARHEAD AND NOSE CONE

The frame is the skin and structure of the missile, including fins, if any. The warhead and nose cone contain the payload (nuclear, high explosive, or instruments in the case of research missiles) and the shell or cone that encases.





SUPERIOR ENGINES

develop KW... for missile KO!

The warhead carries a missile's big punch, but its fighter instinct is developed by earth-bound electric power. Without reliable ground power, there could be no missile launching, guidance and control, or communication . . . and no knock-out blow!

Already in the U. S. defense ring are dependable White Superior diesel engine generator sets at BOMARC, NIKE and other missile installations. At every round, they are ready with quick, easy starting and continuous, reliable operation. Precision construction takes Superior the limit, too, with trouble-free performance, low maintenance and maximum fuel economy.

In the battle for space, Superiors are veterans, being installed on sections of SAGE, "DEW" line and the "Texas Towers." They will soon find important civilian sky duty also at many of the Federal Aviation Agency's new air-traffic control stations. White can custom-engineer engines to meet your exact needs . . . offers experience with automatic, unattended and remotely controlled operation. If your requirements range from 215 to 2150 HP, or 150 to 1500 KW, get complete information now!

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WHITE DIESEL ENGINE DIVISION

THE WHITE MOTOR COMPANY, *Plant and General Offices: Springfield, Ohio*

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New Products

• missle frame, warhead and nose cone

NEW FASTENERS MEET MISSILE PROGRAM DEMANDS

Huckbolt fasteners fabricated from high alloy die steels and a variety of stainless steels are now available from Huck Manufacturing Co.

The new fastener specifications have been developed primarily to meet recent demands for miniaturized fastener designs for use in new missile programs. The new materials permit use of smaller, lighter components with no sacrifice in strength. They are recommended for use in elevated temperature applications where unusually high strength is required.

Among the new Huckbolt pin materials that may now be specified are AISI Types 321 and 431 stainless steels, A286 and 17-4 PH stainless steels, Vasco Jet 1000 alloy steel and Thermold J alloy steel. Huckbolt collars for these applications are of AISI Type 430 stainless steel, annealed.

Fastener strengths formerly achieved only at room temperature are provided up to 900°F by some of these materials. In addition, fastener performance has

been satisfactory in certain applications at temperatures well beyond 900°F.

Huckbolt fasteners of both shear and tension types as well as Huckbolt stumps can now be obtained in the new materials for the full range of nominal pin diameters (5/32-in., 3/16-in., 1/4-in., 5/16-in. and 3/8-in.) Alloy steel fasteners are available with diffused cadmium-nickel alloy plate where required in accordance with A.M.S. 2416.

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Gloss-Cote Designed for Air-Space Usage

Hi-Brite Gloss-Cote is specifically designed for use in military applications and on private and commercial aircraft. The high-visibility colors are used extensively on missiles for visual and photographic tracking, on drone-aircraft and tow targets, on drogue chutes for in-flight re-fueling operations, and on private and commercial airplanes for improvement in the visibility of the aircraft against backgrounds of hazy sky, or dull green and brown earth.

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New Weldable Alloy Solves Joining Problem

A new air-hardening, weldable and fully martensitic alloy has been developed by The Carpenter Steel Co., to meet the need for a metal that can be used for highly stressed parts at temperatures up to 1050°F where joining is a problem.

The steel, known as Carpenter 404 alloy, is designed to be free from weld cracking without preheating or postheating. Weldments can be readily cold worked after stress relieving or annealing.

The new alloy is recommended especially for applications such as steam turbine buckets, blades and bucket covers, as well as for "casting in" assemblies such as turbine diaphragms.

The new metal is essentially a 12%-chromium 1½% nickel composition having relatively high tensile strength and good ductility. It shows a marked improvement in weldability over stainless Type 410, and a more uniform structure and higher hardness than Type 405.

In the annealed condition, the steel is said to be easily blanked, drawn, formed or cold headed. Another advantage is its easy machineability in both the treated and annealed conditions.

Carpenter 404 alloy is made by the company's Mel-Trol process, a new quality control system with patented ingot design. Mel-Trol is used to minimize the causes of inconsistent centerline quality which so often causes erratic service in alloys of this type made by conventional methods.

The alloy offers resistance against a wide range of corrosives, including the atmosphere, fresh water, mine water, steam, carbonic acid, crude oil, gasoline, blood, perspiration, alcohol, ammonia, mercury, soap, sugar solutions and other reagents. It also has good resistance to scaling at elevated temperatures and can be used for continuous service up to about 1200°F.

Forms now available include forging billets; hot rolled bars and forgings, either annealed or heat treated; cold drawn and ground bars; wire and wire rods; and strip, both annealed and tempered.

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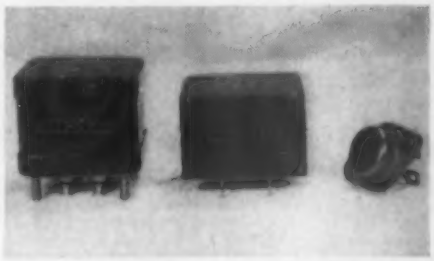
Subminiature Devices May Be Smallest Power Units

The engineering laboratories of Ferrotran Electronics Co. have recently developed a new subminiature series of their "Powertran" power supply units which may be the smallest power supply package ever developed. They are manufactured in a molded or in an encased form.

The molded unit which is made for mounting on a printed circuit board is approximately the size of a flashlight battery. A typical unit measures 1 3/8" x 1¾" x 1¼". (Photo shows relative size of unit compared to a power transistor.)



Four stock units which will give any fixed d-c output voltage in the range from 10-30 volts are available. The 10 volt unit, for example, operating from 115 volts, 60 cycles will supply 25 ma. of current. It is well-regulated, ripple-free, and short-circuit protected.

The device is ideal for transistor supply purposes, bias purposes, or reference voltage purposes.

This series of power supply units is the smallest in the "Powertran" series.

Stock units are as follows:

Model No.	*D.C. Output Volts*	*D.C. Output Current*	*% Reg.*	*% Ripple*
SM-10-A	10	25 ma.	2.3	0.5
SM-15-A	15	20	2.3	0.5
SM-20-A	20	20	2.5	0.5
SM-30-A	30	15	3.0	0.5

Encased units are 1 5/8" x 1¾" x 1½" and are available with transformer type terminals, multiple pin headers, or as plug-ins. (7-pins or 8-pins)

Molded units are 1 3/8" x 1¾" x 1¼" and are furnished with short pins for mounting into printed circuit boards. The units may be solder-dipped.

A far greater current than shown above can be drawn from the unit, without overheating, at a somewhat reduced output voltage.

Temporary short circuits may be placed across the output without damaging the unit.

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• *missile frame*

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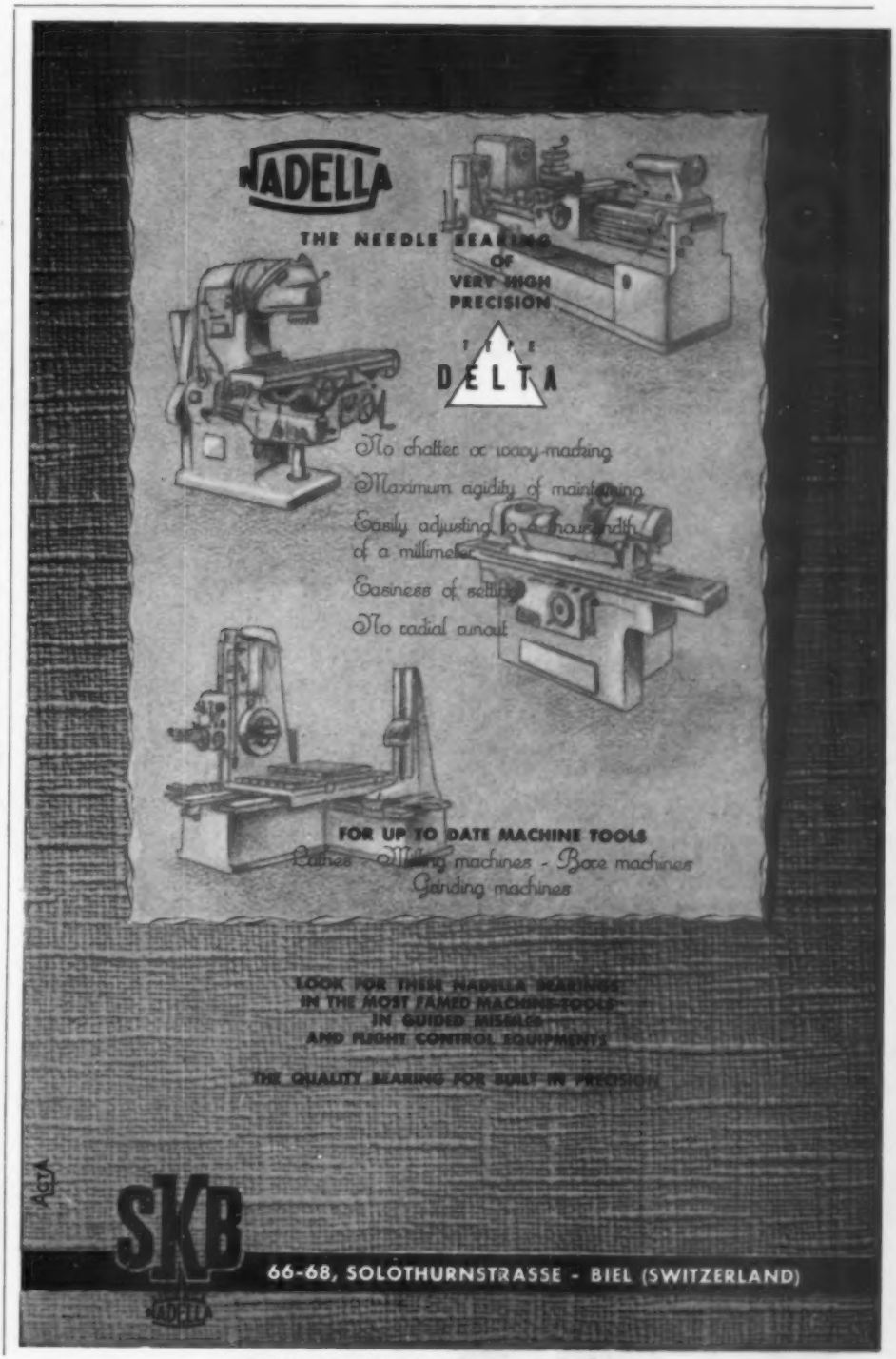

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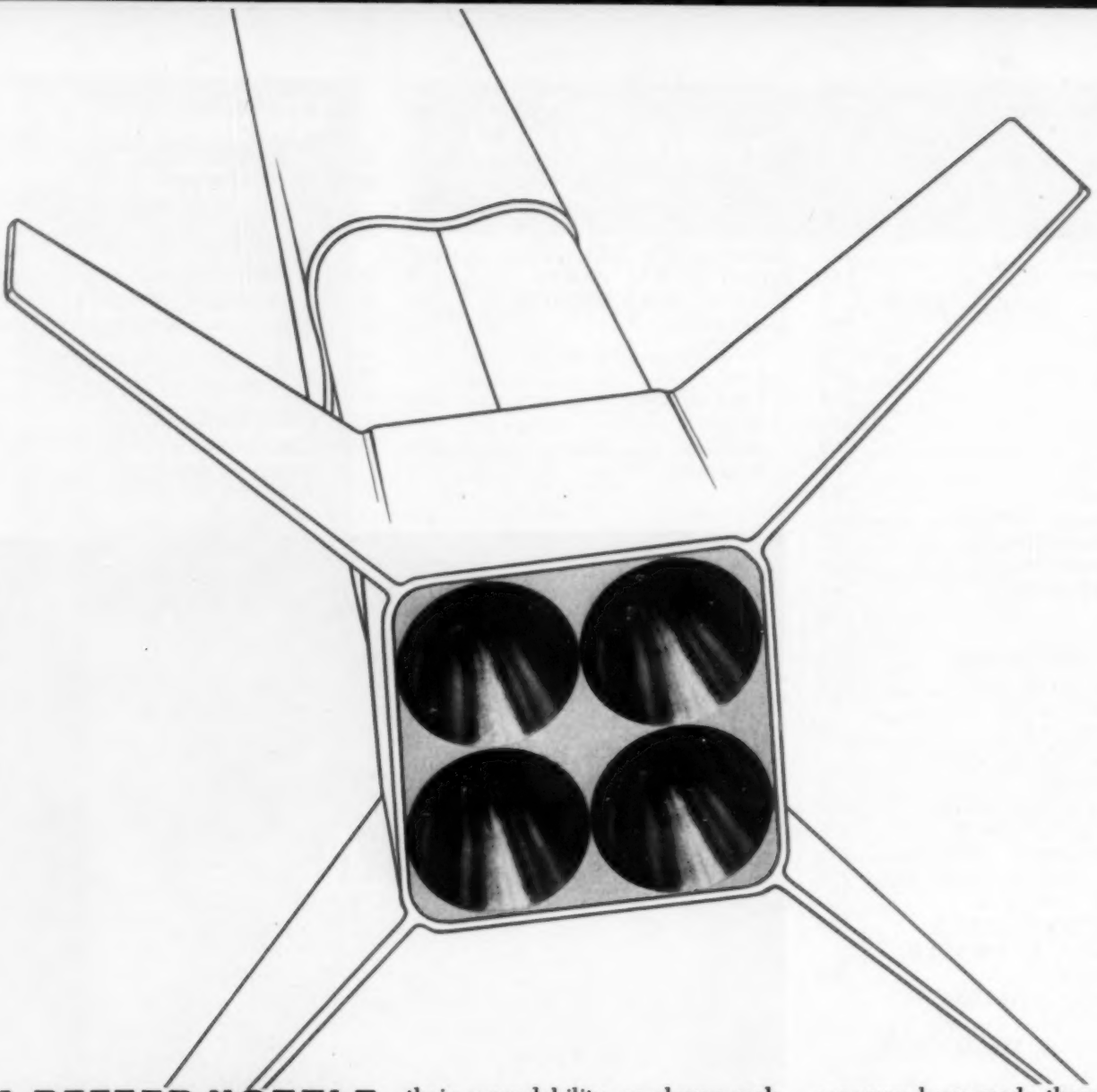
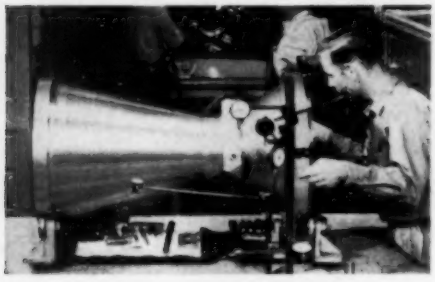
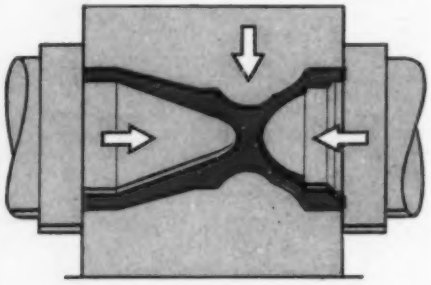


A BETTER NOZZLE MEANS A BETTER MISSILE

Nozzles for guided missiles are an important factor in performance and, of course, in cost. In the end result during their short-span service, they must produce proper thrust without disintegrating. In early production, despite their simple symmetrical shapes, they posed many knotty problems. Special alloys, thin sections, and close tolerances spelled trouble. So did their expendability, as always making costs a concern.



Today, after many years' production, we have delivered a staggering number of these problem pieces. The secret of our success has been our own unique Cameron forging



processes which have extended the scope of ferrous forgings far beyond traditional restrictions in shape, size and quality. Elimination of welds along with better grain structure, internal as well as external curvatures, and considerable machining economy have made these forgings increasingly popular.

Our forgings are available as forged, rough machined, or finished machined, ready to save money in any phase of your operations. If you have a forging problem in components ranging from a few pounds to 8000 pounds, especially something for extreme service (high stress, high temperatures, etc.) we may have the answer. Special alloys are no problem because we produce our own steel with the most modern controls and tests from melt shop to delivery dock. Just call, write, or come by . . .

Cameron

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SPECIAL PRODUCTS DIVISION

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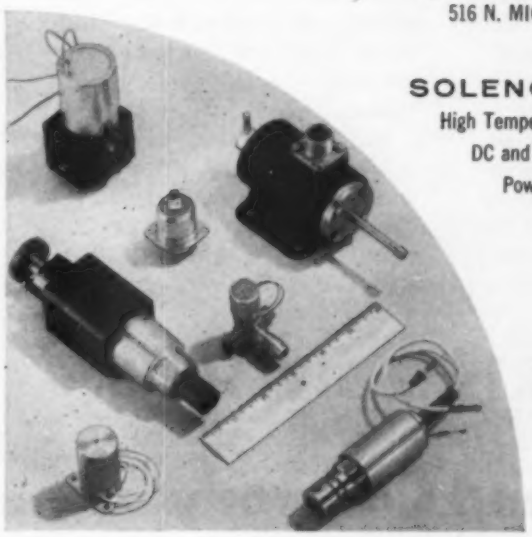

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Power and Miniature

VALVES
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Propellant Air Deicing
High Pressure Miniature Fuel

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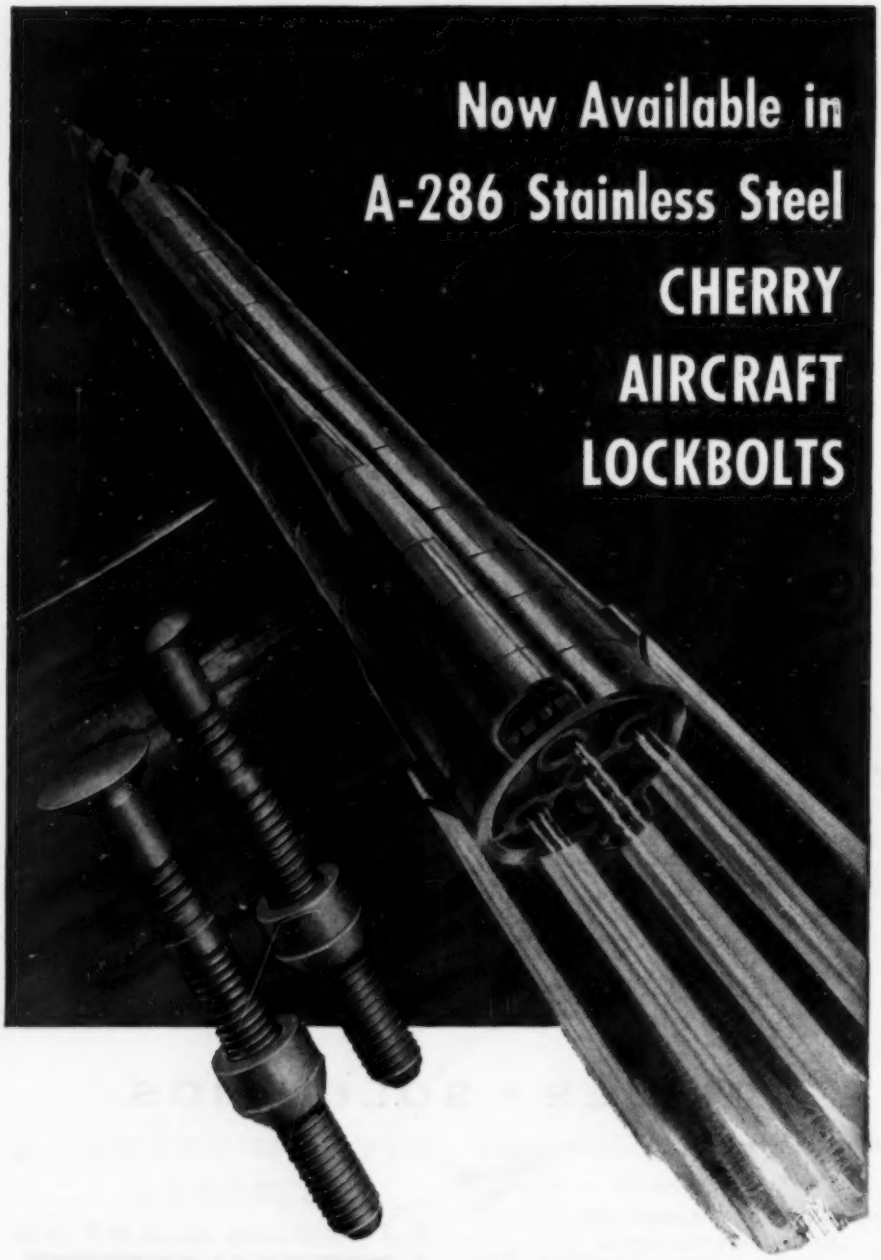

Designed especially for High Strength—High Temperature and liquid oxygen and other corrosive applications, Cherry Aircraft Lockbolts* are now available in austenitic A-286 Stainless Steel.

Available for the aircraft industry in a wide range of diameters, grip lengths and head styles in A-286 . . . Cherry Lockbolts are also produced in Alloy Steel and Aluminum.

Cherry Lockbolts are structural fasteners providing simplicity and speed of installation with uniform high tensile preloads.

Shop men like them.

For information on Cherry Aircraft Lockbolts, write Townsend Company, Cherry Rivet Division, P. O. Box 2157-Z, Santa Ana, California.

*Licensed under Huck patents RE22,792; 2,114,493; 2,527,307; 2,531,048; 2,531,049 and 2,754,703

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SANTA ANA, CALIFORNIA

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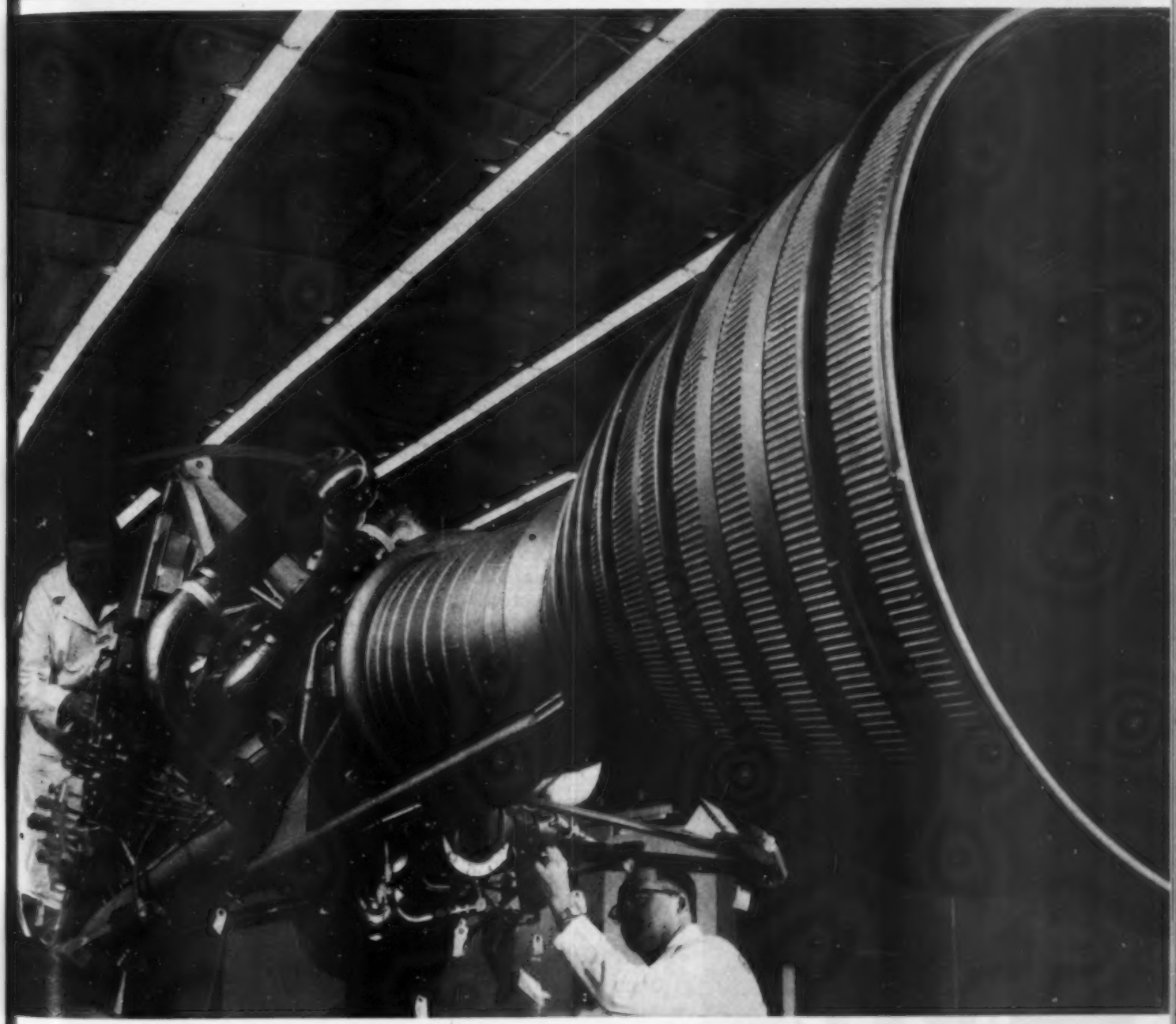
PROPULSION SYSTEMS AND AUXILIARY POWER UNITS

These units include the power plant and its associated equipment; such as, tanks, pumps, blast chambers, nozzles, resonance rods and fuel. Propulsion systems are simple in solid rockets, complex in liquid rockets. Auxiliary power units consist either of hot gas turbines driving hydraulic pumps and generators, or of batteries supplying power for missile guidance and control systems.



giving the "breath of life" to solid propellants!

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Advances in solid propellant technology have depended on AMMONIUM PERCHLORATE from American Potash & Chemical Corporation since the very beginning. First in the field with this essential oxidant, AP&CC was for many years the only domestic producer of ordnance-grade NH_4ClO_4. Today, with a growing network of strategically located plants and increased technical knowledge, Trona still leads the industry. Supporting the big tonnage production of AMMONIUM PERCHLORATE at Henderson, Nevada is the new SODIUM CHLORATE plant at Aberdeen, Mississippi, making AP&CC the free world's largest producer of $NaClO_3$. If a guaranteed source for AMMONIUM PERCHLORATE and the very latest in technical developments, gained through years of experience in this field, are important to your process and products, contact your nearest AP&CC sales office today.

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New Products

• *propulsion systems*

KEL-F PLASTICS HAVE MISSILE APPLICATIONS

"Kel-F" polymers produced by Minnesota Mining and Mfg. Co. are noted for chemical inertness, low-temperature range, low "cold-flow" characteristics, all-round moldability, and easy machining.

Another useful property, especially for missiles and rockets, is the polymers' flexibility. Lip seals for rotating and reciprocating shaft seals and propellant gate-valve seals must be flexible at temperatures from about –450 to 165°F. They also require spring-back and dimensional stability to seal against low and high pressure, from 5 to 600 psi.

These qualities can be achieved by special heat treatment of "Kel-F" plastics to control physical properties. Tensile strength of the plastics remains high (up to 5800 psi at –300°F.), while flexibility is maintained at these temperatures to withstand impulses and cycling as a seal from pressures of 0 to 1000 psi.

Missile applications include:

Coil forms—Zero moisture absorption, good dielectric strength, and excellent dimensional stability make "Kel-F" plastics an exceptional coil form material for missiles. Biggest problem it solves is that it shows no effects from the extremely high temperatures reached by the wire wrapped around the form—temperatures that tend to soften and warp coil forms made of other materials.

Expellent bladders—Function of these bladders is to store such highly corrosive liquids as LOX, WFNA, RFNA, and 90% hydrogen peroxide in the fuel chambers of missiles. Fabricated from plastic tubing and heat-sealed after loading, the bladders are usually employed as liners in stainless steel tanks. They range in diameter and length from ¼" to 150".

Gasket seals—Transfer-molded gasket seals, made of an elastomer O-ring mechanically-bonded to a square of anodized aluminum, are now being produced for nitric acid contacts in missiles. "Kel-F" polymers provide the only applicable elastomer that will withstand such contacts.

LOX lip seals—Chemical inertness and flexibility at the extremely low temperature of LOX are responsible for the wide use of "Kel-F" plastics in LOX lip seal applications. The material is first compression-molded, then post-formed and machined into seals of the desired shapes and sizes, with tolerances as close as plus or minus 1.5 mils with a 7 micro finish.

O-rings in rocket engines—Successful operation of a liquid rocket depends almost entirely on the proper functioning of its elastomeric parts. O-rings are used as shaft seals, gaskets, and valve seats. "Kel-F" elastomer was early applied in this area, mainly because of its resistance to WFNA.

Self-locking nuts—Inserts of "Kel-F" plastic prevent seepage of such strongly reactive missile fuel liquids as RFNA and WFNA past the internal bolt threads of self-locking nuts.

Sprays—"Kel-F" dispersion film, the most flexible of the polymers, is being used in many missile applications, chiefly diaphragms, as follows: the dispersion is sprayed on a metal form (which may be of any convolution or configuration); after baking, it is removed, yielding a component that is non-porous, tough and flexible.

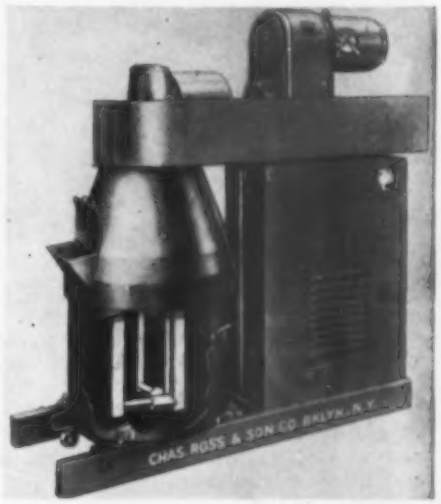
Structural-thermal use—Because of high compressive strength and wide temperature utility, "Kel-F" plastics are the main structural support and thermal barrier between the outer shell and the "internal package" in Vanguard satellites. Major concentrated load of the package is carried directly through a "Kel-F" plastic support to the main hub at the base of the structure.

Vent seals—A small device injection-molded from "Kel-F" plastics is used to prevent moisture or foreign material from entering small bleed holes in rocket engine components. The seal also acts as a low-pressure, small-volume relief valve.

Fill in No. 104 on Subscriber Service Card.

Machines Developed for Mixing Propellants

A complete new line of heavy duty double planetary change can mixers has been developed by Charles Ross & Son Co., Inc. for mixing solid propellants. The company, which also manufactures a line of horizontal type kneading machines for mixing propellants, has improved on the design of the vertical type changeable can mixer to incorporate many features designed specifically for propellant mixing.



The double planetary change can mixers are available in many sizes from 1 gallon Laboratory size to 200 gallon large production size, and all mixers are furnished with variable speed motor drives. Nonsparking materials are utilized, and, aside from versatility in operation and ease of clean out of the changeable can type mixers, mixers of this type eliminate stuffing boxes and bearing in the product zone.

The double planetary changeable can mixers are furnished with stainless steel stirrers and can, jacketed cans, and vacuum covers when required.

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Propellant Valve Has Dual Flow Control

For simultaneous flow control of liquid Oxygen and Fuel, Hydromatics Inc.'s provides zero leakage control of a 5/8" LOX line and ½" fuel line at pressure up to 100 psi and temperatures as low as –350°F.

A single-acting, spring-return pressure actuator drives a precision mechanical linkage which controls both valves, thus insuring constant timing. The valves are extremely fast acting, with response times as short as 10 milliseconds. All dynamic sealing is double with a vent between seals for maximum safety. A sealed, rotary action snap switch permits remote observation of valve position. Valve flanges, available in standard or special styles, are removable and interchangeable.

Fill in No. 106 on Subscriber Service Card.

. . . new products

Koehler Ball Valves Have Missile Applications

An extensive line of KOEHLER/Dayton Ball Valves, Koehler Aircraft Products Co., is now available for missile in-flight and ground support applications.

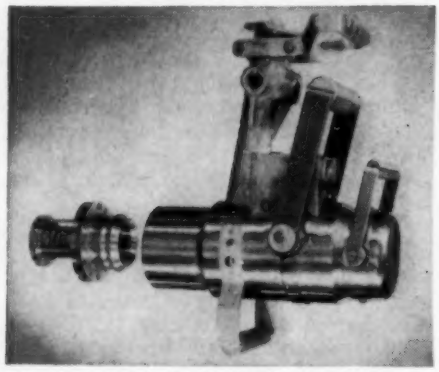
KOEHLER/Dayton Ball Valves are ideal for use with standard fuels and oils, high energy fuels, oridizers coolants and cryogenics. They combine simple design and rugged construction and as a result are among the lightest and smallest available.

When functioning as drain, selector, fill and flushing valves, this ball type design can be actuated by manual, mechanical or electrical means.

Fill in No. 107 on Subscriber Service Card.

Fuel Oxidizer Servicing Nozzle Designed

Missiles and ground servicing equipment require specially designed nozzles and adapters for fueling operations prior to countdown. Lear-Romec Division of Lear, Inc. has developed such a device for missiles embodying special design and materials, standardizing the equipment for filling oxidizer reservoirs and fuel tanks at missile bases.



Developed for dependability and safety in handling oxidants, the nozzle is fully capable of transferring any of the exotic fuels and oxidants except those requiring stoneware transmission equipment.

For "closed circuit" fueling operation, two nozzles are required to transfer propellant or oxidant from the supply source to missile and overflow venting from missile to source. Thru the three way locking action between the nozzle and its companion adapter (permanently mounted on supply source and missile) absolute leak and hazard-proof seal is effected.

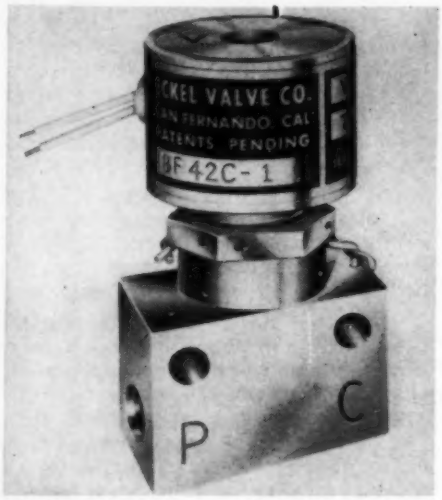
Operation is satisfactory at temperatures ranging from –65 degrees to plus 140 degrees Fahrenheit, in accordance with the requirements of Military Test Specifications Mil-N-25556 (nozzle RR13110) and MIL-N-25555 (adapter RD13040).

Originally designed to accommodate fuming red nitric acid (HNO_3), only the purer and more advanced aluminum and stainless steels are used for their overall resistance qualities to the corrosive action of oxidants.

Fill in No. 108 on Subscriber Service Card.

Eckel Offers Miniature Three-Way Valve

Eckel Valve Co.'s Series BF42C is a miniature 3-way valve for small actuators and instrumentation systems. It operates to 70 psi—gases or liquids—with inherent minimum leakage. The current consumption is just 9 watts at 28V DC, and the valve is available either with electrical connectors or lead wires.



Because of the Eckel coaxial configuration, this new BF42C valve is only one-third the weight of previous "smallest" 3-way valves.

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Lox Pump Motor Delivers 60 gal/min.

Recently developed by the J. C. Carter Co. for pumping liquid oxygen of liquid nitrogen is an electric motor driven two stage centrifugal pump. Designed to deliver 60 gallons per minute against a 550 ft. head, this pump is particularly suited for installations where light-weight, compact design is important.

Fill in No. 110 on Subscriber Service Card.

New Concept Featured in Liquid Sensing

A new Liquid Sensor featuring simplicity and greater reliability is now being produced by the Pioneer-Central Division of Bendix. The new Sensor, which was developed to supplement the fuel measurement and control systems and the airborne liquid and gaseous oxygen systems with which Bendix has been identified is expected to have wide application in many related and unrelated fields.

The Sensor provides a new means of sensing the existence or level of liquids even in the presence of gas or vapor. It is adaptable to a wide range of applications—from sensing the presence of liquid at a given level in tanks to the critical measurement and control of missile propellants. It will function in fluids with widely divergent characteristics including the liquified gases, hydrocarbon fuels, red fuming nitric acid, fluorides, hydrazine, water, ink and viscous fluids such as molasses.

The Sensor is currently available in the form of a probe with built-in transistorized amplifier and relay or, for other applications, with the probe separated from the amplifier and relay. Both designs are adaptable to different configuration and to dimensional changes to conform to specific requirements.

Fill in No. 111 on Subscriber Service Card.

New Hydrogen Peroxide Nozzle Is Non-Corrosive

A new self-sealing, high flow rate hydrogen peroxide nozzle and adapter for servicing aircraft or missiles using hydrogen peroxide as an oxidizer has been announced by Flight Refueling Inc.

Safety requires the nozzle to be manually locked to the adapter before the internal valves can be actuated and, collaterally, the internal valves must be completely closed before disengagement.

Another important feature is that working parts are fitted externally and do not come in contact with the fluid, eliminating the possibility of corrosion.

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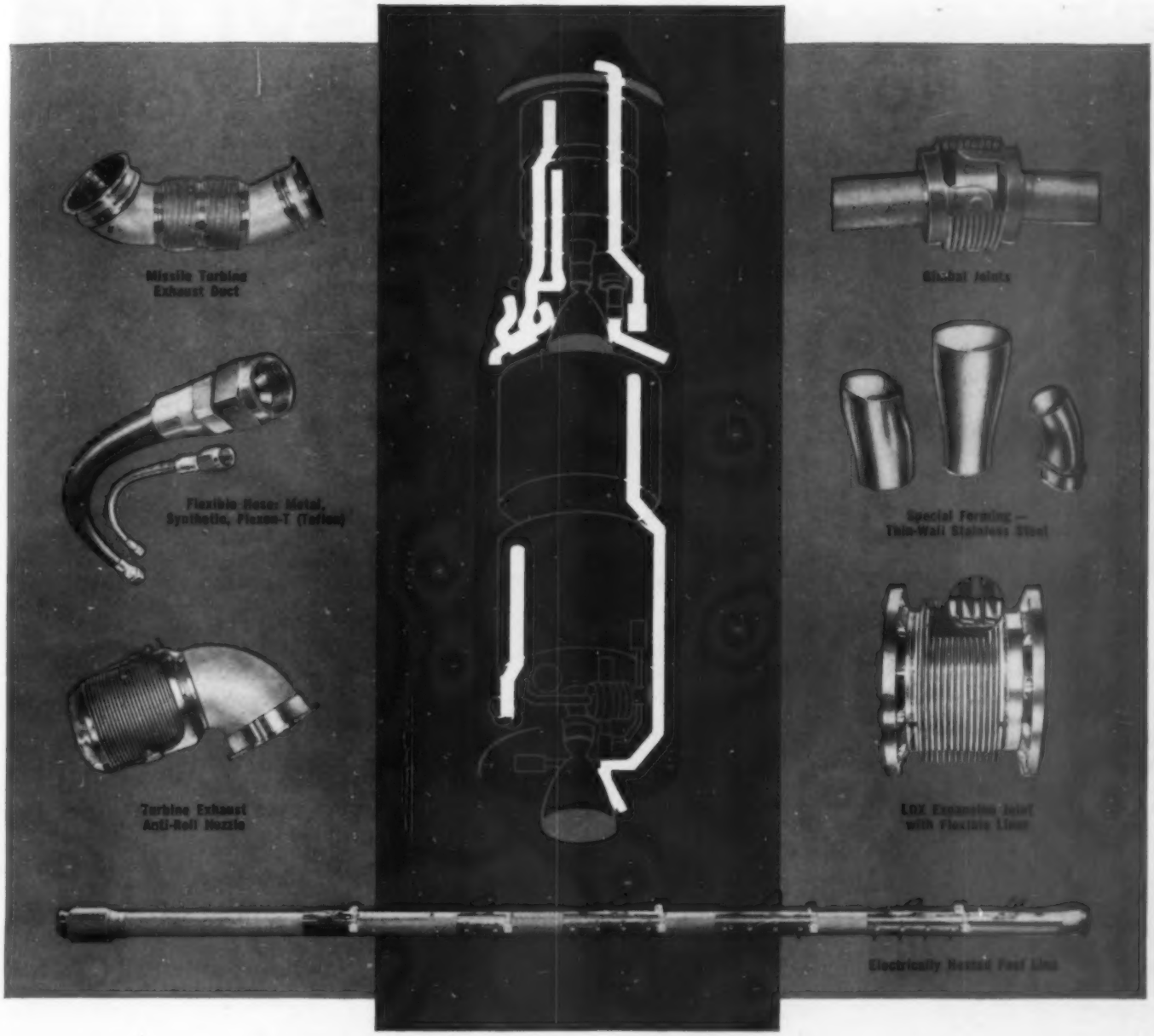

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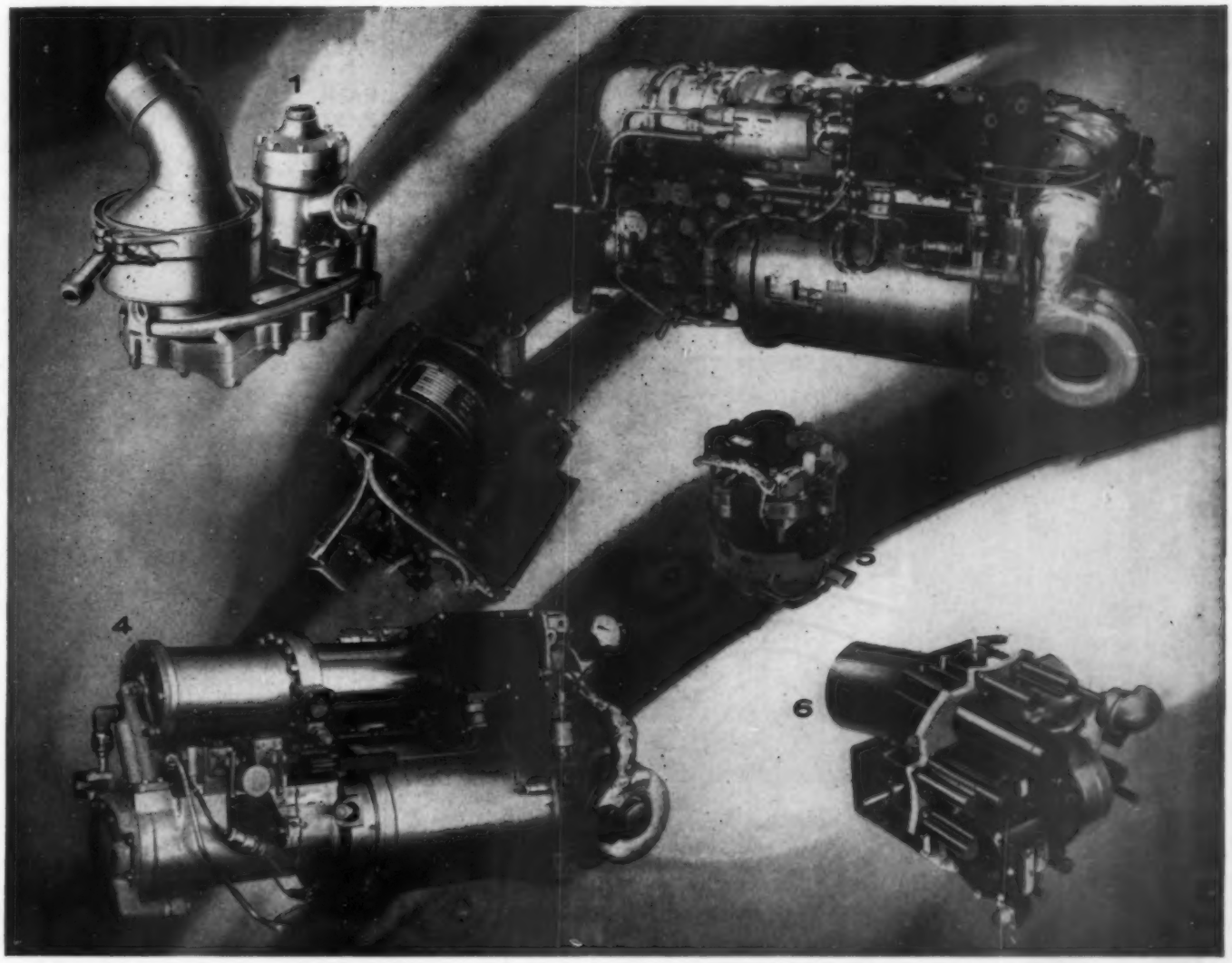
DELIVERED—thousands of missile APUs



1. *Solid propellant—hydraulic output* **2.** *Liquid propellant—hydraulic and electric output* **3.** *Solid propellant—electric and mechanical drive output* **4.** *Liquid propellant—hydraulic and electric output* **5.** *Solid propellant—hydraulic and electric output* **6.** *Solid propellant—hydraulic, electric and steering outputs*

AiResearch has designed, developed, manufactured and delivered thousands of missile accessory power units. Extremely reliable and lightweight, these various solid and liquid monopropellant APUs are completely self-sustaining within the missile system. Designed to minimum space and weight requirements, they are built to withstand high G loading and severe temperature extremes.

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These tailored systems utilize the extensive hardware experience and complete laboratory, test and production facilities of AiResearch needed for quick and efficient quantity production of complex APU systems. AiResearch is the world's largest and most experienced manufacturer of lightweight turbomachinery—the key component of its APU systems. Your inquiries are invited.

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Engineers:

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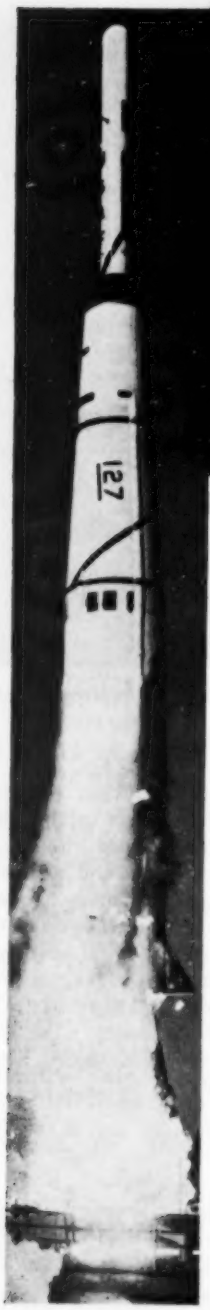

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Guided Missiles Range Division
Patrick Air Force Base, Florida

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Please send the following General Chemical Technical Bulletins:

- ☐ "Nitric Acid, Fuming" (PD-TA-70751)
- ☐ "Fluorine" (PD-TA-85413)
- ☐ "Handling Elemental Fluorine Gas In The Laboratory" (PD-TA-85413A)
- ☐ "Liquid Fluorine Unloading Procedure" (PD-TB-85411)
- ☐ "Chlorine Trifluoride" (TA-8532-2)
- ☐ "Chlorine Trifluoride Vapor Pressures" (DA-85321)

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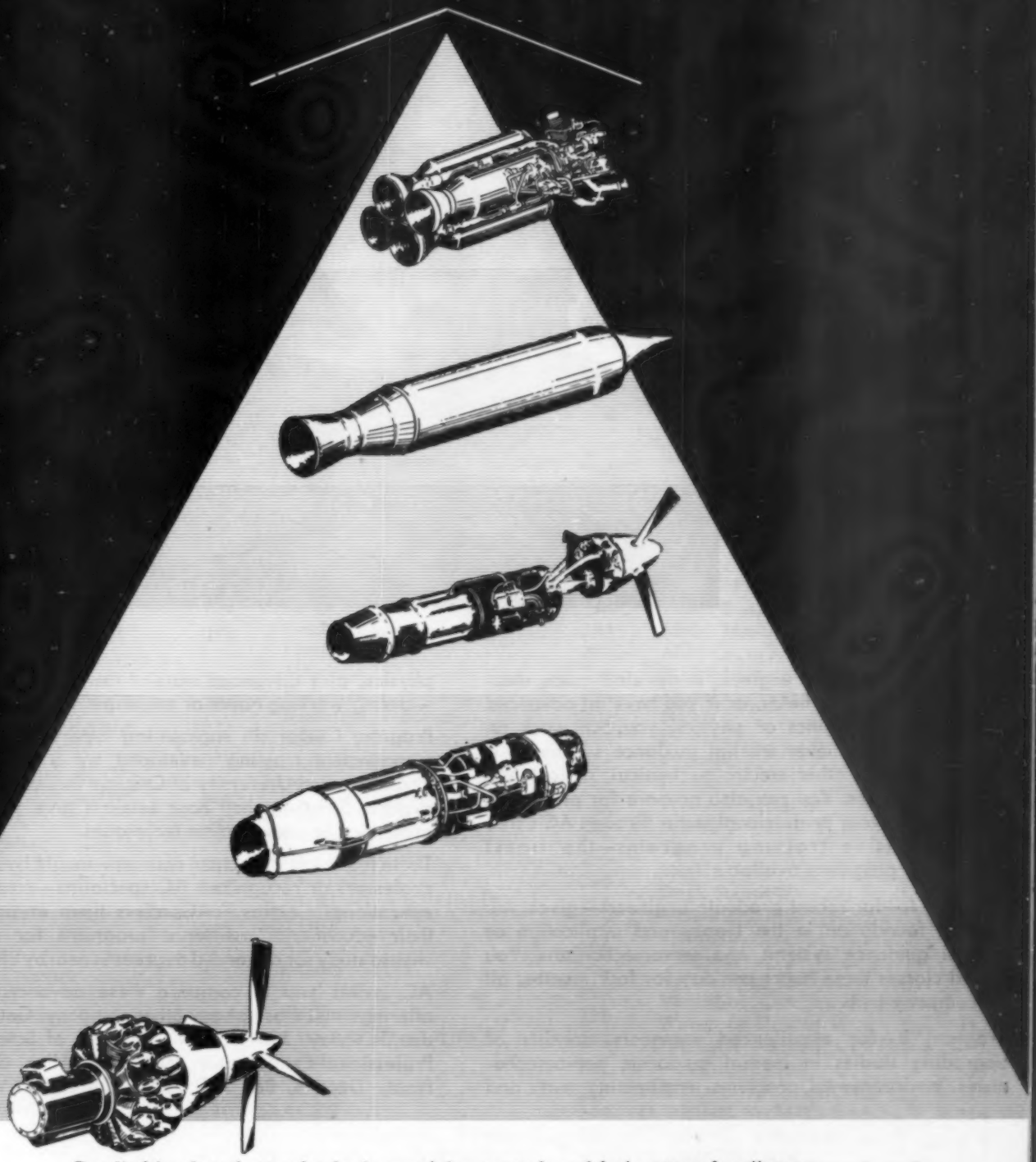
CONTROLS

FOR THE FULL SPECTRUM OF PROPULSION SYSTEMS



Bendix* has long been a leader in supplying controls and fuel systems for all types of aircraft engines. Today, Bendix is proving to be a natural for new challenges in related missile fields—on ram jets, rockets, nuclear power, and other advanced propulsion systems. So, when it comes to controls, remember that Bendix has the background—and is anxious to share it in solving your problems. *REG. U.S. PAT. OFF.

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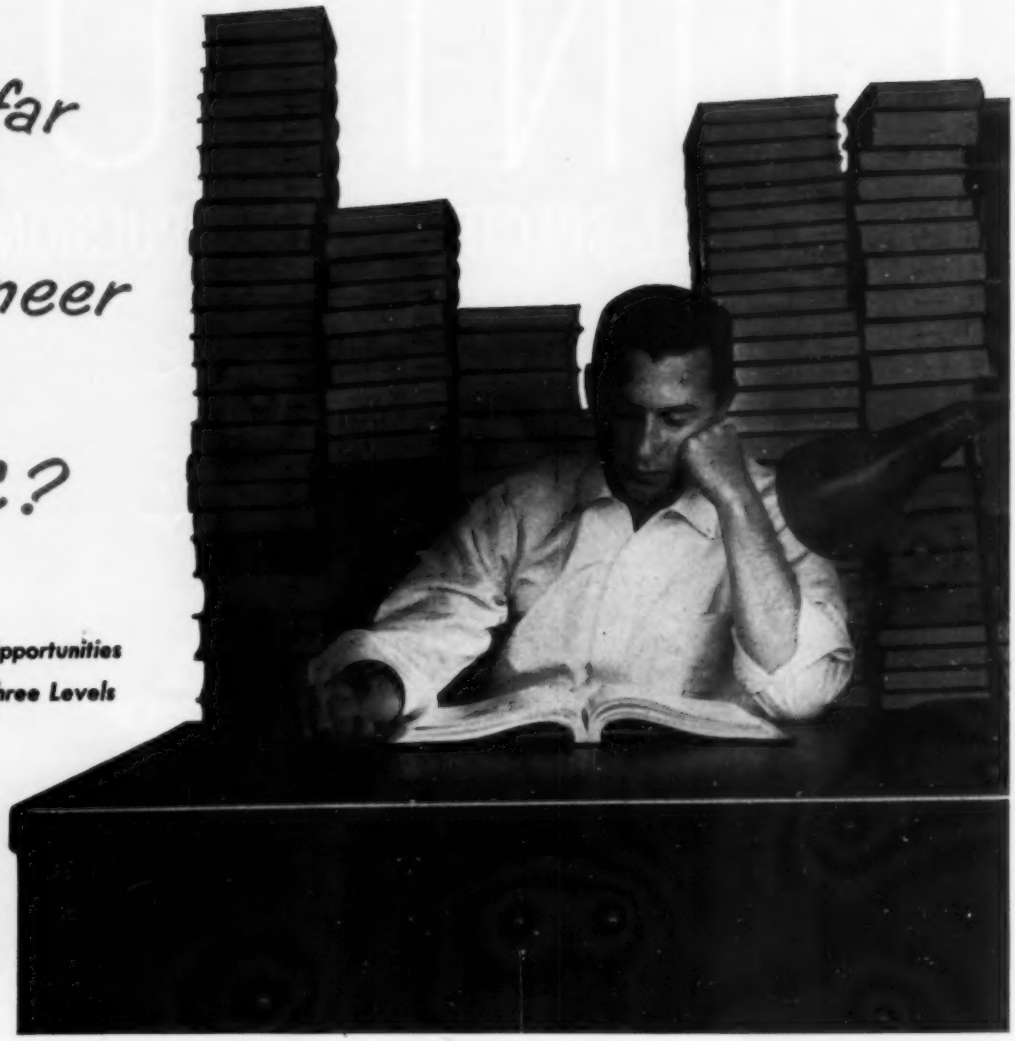

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If you are a graduate engineer in the electronics, electrical or mechanical fields, or if you have an advanced degree in mathematics or physics, you can work on AC's famous AChiever inertial guidance system or a wide variety of other electro-mechanical, optical and infra-red devices. You can also prepare for promotion and enhance your professional status through AC's free comprehensive training programs—the finest "in house" programs available.

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These thoroughly practical courses—taught by university professors or recognized AC specialists—constitute AC educational "extras." AC offers them in addition to their educational assistance programs for men who wish to study for advanced degrees in nearby universities.

AC invites you to compare these advanced training offerings with those of any other company. Get complete details today. Just write the Director of Scientific and Professional Employment: Mr. Robert Allen, Oak Creek Plant, Dept. B, Box 746, South Milwaukee, Wisconsin.

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OF GENERAL MOTORS

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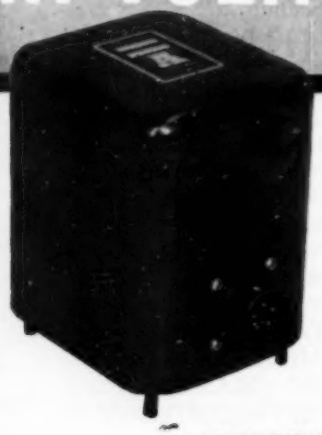
REGULATED DC POWER SUPPLIES

HI-VOLTAGE SERIES

Designed for powering airborne electronics equipment under the most adverse environmental conditions, Arnoux High Voltage DC Power Supplies assure the utmost in reliability. These magnetic-amplifier regulated supplies are available in the range of 108 to 450 volts DC, with current ratings from 50 ma to 800 ma. Other ratings are also available on special order.



Model 250 S 025

ARNOUX

Input Power: 115 volts, 400 cps

Regulation:	Input (Variation)	Output (% Rated)
Line Voltage:	± 10%	± 0.25
Line Frequency:	± 20 cps	± 0.1
Load Current:	20-100%	± 0.1
	0-100%	± 0.2

Ripple: Less than 0.05% rms at full load.

Output Adjustment: 5% adjustment available on request at slightly higher price.

Environmental: Meets specification MIL-E 5272 A for acceleration, vibration, altitude, humidity and temperature operating at 20% to 100% rated load.
Also meets MIL-I 6181 B.

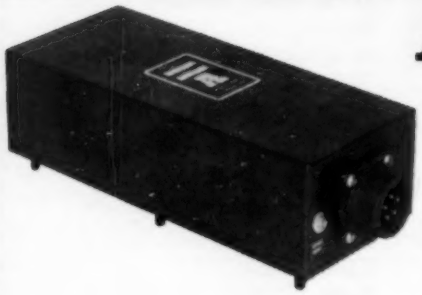
Connector: AN-type connector.

Mounting: Stud-mounted.

(Write for Bulletin 200)

LO-VOLTAGE SERIES

Intended for use in precision airborne instrumentation systems, Arnoux Low-Voltage DC Power Supplies are available in both single and dual output. Ranging from 5 to 50 volts at currents up to 10 amperes, these rugged units are hermetically sealed.



Model 5 S 10

ARNOUX

Input Power: 115 volts, 400 cps

Regulation:	Input (Variation)	Output (% Rated)
Line Voltage:	± 15 volts	± 0.10
Line Frequency:	± 20 cps	± 0.15
Output Load:	20-100%	± 0.05
	0-100%	± 0.10

Temperature Stability: 0.5% per 100°F. (— 60°F. to + 160°F.)

Ripple: Less than 0.1% rms at full load.

Output Adjustment: Screwdriver adjustment provides ± 0.5 volt change. Wider range of adjustment available on request.

Connector: Standard AN-type connector, or hermetically sealed header on request.

Mounting: Stud-mounted.

Environmental: Meets specification MIL-E 5272 A for acceleration, vibration, altitude, temperature and humidity.

(Write for Bulletin 100)

Designers and Manufacturers of

PRECISION INSTRUMENTATION

ARNOUX

ARNOUX CORPORATION

11924 WEST WASHINGTON BLVD. • LOS ANGELES 66, CALIFORNIA

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GROUND SUPPORT EQUIPMENT

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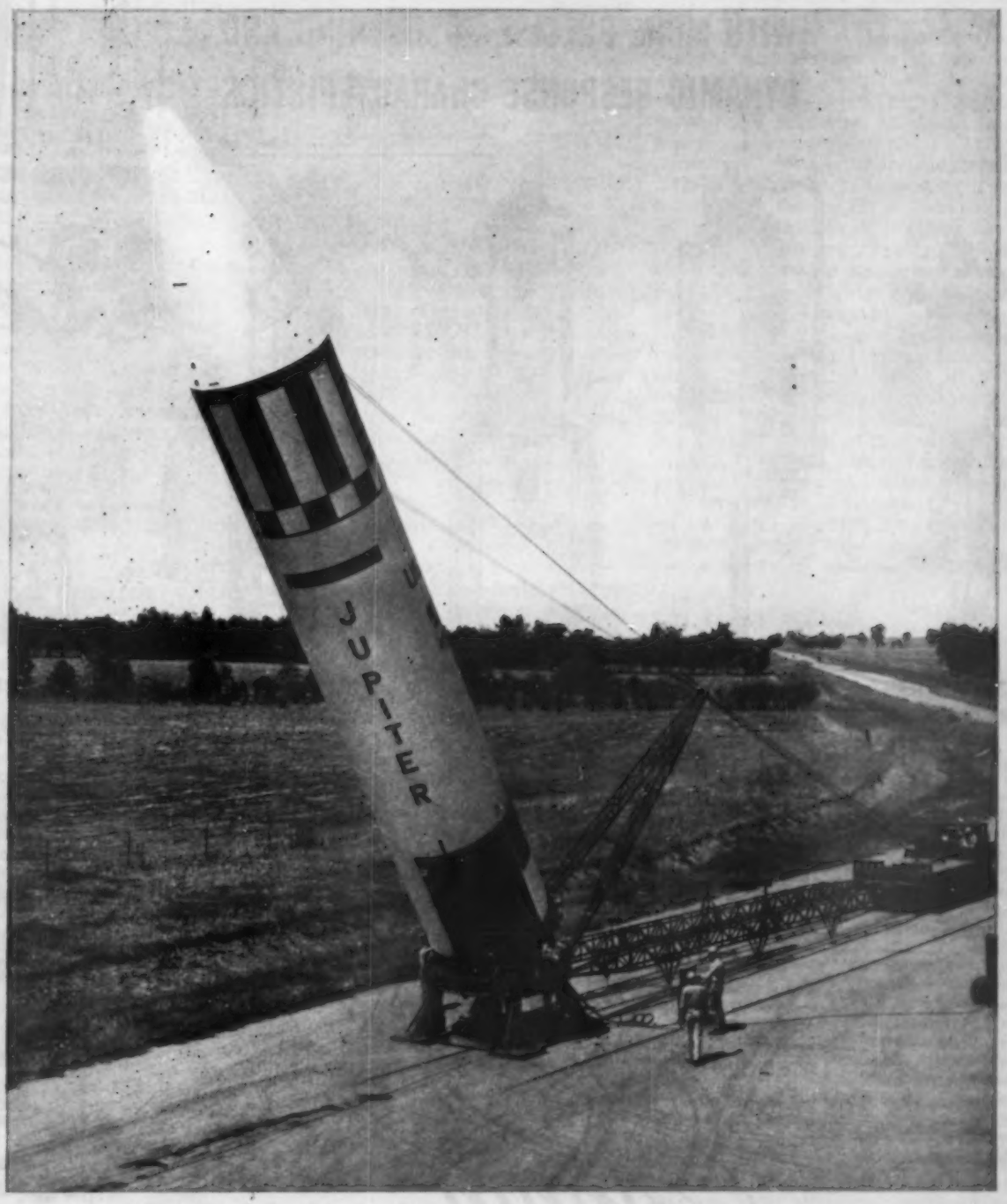
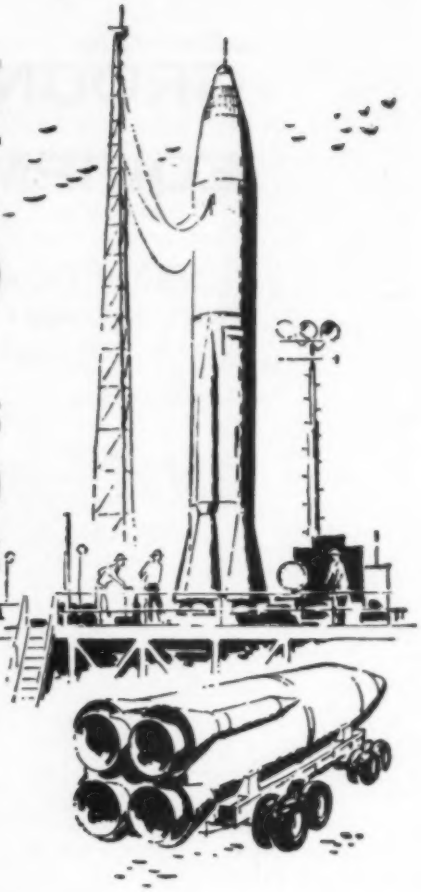
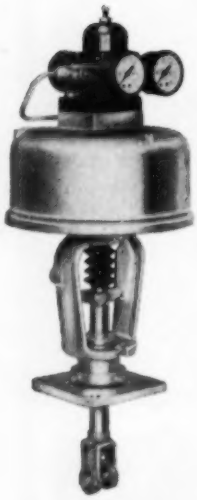


Annin OFFERS YOU MORE IN ACTUATORS

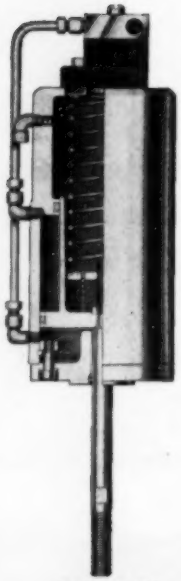


Your choice OF ADVANCED DESIGNS WITH MORE PRECISE POSITIONING AND DYNAMIC RESPONSE CHARACTERISTICS



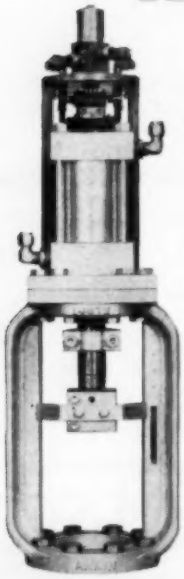
1542 & 1544 SERIES DOMOTOR POWERED ACTUATORS

Two types, "Direct Thrust" (illustrated) or "Lever" units are available for any application requiring accurate positioning in response to a pneumatic signal, such as butterfly valves, dampers, turbines and engine governors. Guaranteed positioning accuracy of better than 0.001" per inch of stroke over the complete range of piston travel is combined with a smooth operating action that provides an accurate, stable output force.



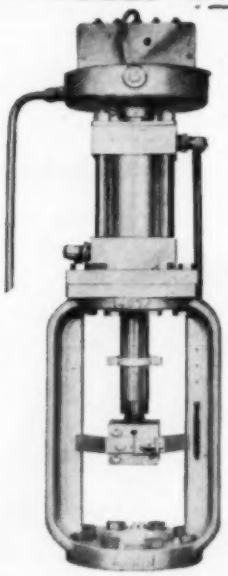
600 SERIES STROKE POSITIONING ACTUATORS

Offered primarily for the control of variable speed drives, rheostats, pumps and cams, as well as control valves, with strokes up to 6 inches and forces up to 2510 pounds of thrust. Compact and rugged, for easy mounting on existing equipment. May be operated from a standard 3-15 psi instrument signal, with a positional accuracy within 0.001" per inch of stroke.



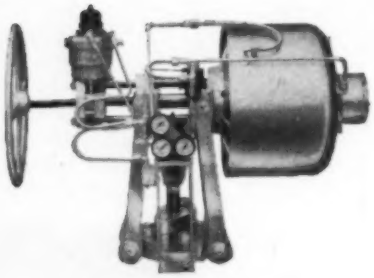
10,000 SERIES PNEUMATIC-HYDRAULIC ACTUATORS

For valves requiring strokes to 6 inches and thrusts to 100,000 lbs. Furnished on body assemblies where process conditions require very fine valve response, hi-speed and stability. Operate on 1500 psi oil supply system from any common instrument air signal.



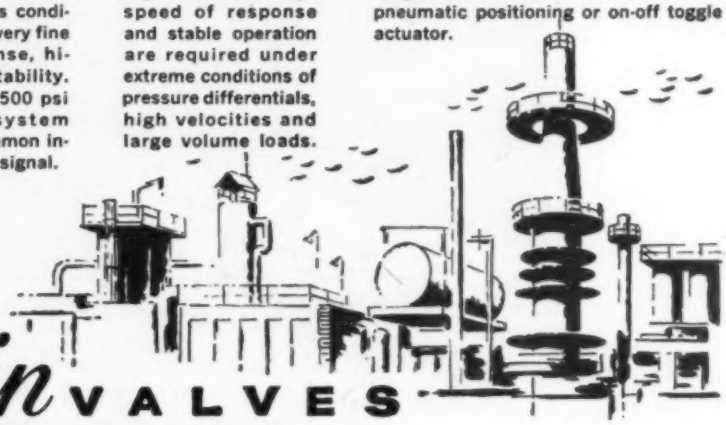
20,000 SERIES ELECTRO-HYDRAULIC ACTUATORS

Provide a means of converting an electrical signal to a powerful hydraulic positioning force, where high speed of response and stable operation are required under extreme conditions of pressure differentials, high velocities and large volume loads.



TOGGLE ACTUATORS

For process requirements where the unbalanced forces are extremely high, or where large through-puts are required. Three types are offered: pneumatic positioning, pneumatic on-off, and manual control, all embodying the toggle actuator; or a manual control arrangement can be combined with the pneumatic positioning or on-off toggle actuator.



Annin VALVES

Write for Bulletin 1236-ST

THE ANNIN COMPANY
1040 S. Vail Avenue, Montebello, California

Fill in No. 28 on Subscriber Service Card.

New Products

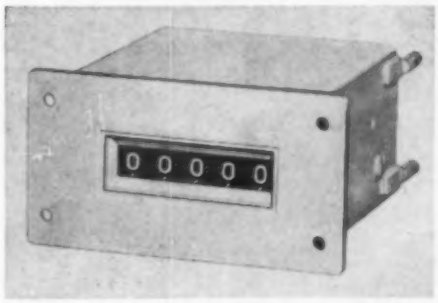
• *ground support*

SEALED ELECTRIC COUNTER HAS ELECTRIC RESET

Durant Mfg. Co.'s new Model 5-YE-9156-ER is a hermetically sealed electric counter with electric reset, designed specifically for use on military and other applications where adverse operating conditions are a factor. It is manufactured to meet MIL specifications 5272-A and similar rugged specfications.

Although especially designed for such military applications as missile ground support equipment and aircraft instrumentation, Model YE-9156-ER may also be used on industrial installations where severe atmospheric conditions prevail, or where an explosion-proof unit is required.

Provision is made for mounting the counter to the front panel through four 8/32 threaded holes on the face of the counter. It is also equipped with four mounting lugs at the base for applications where additional support is needed, or for base installation. Compact in size and sturdy in construction, Model 5-YE-9156-ER is complete with a Winchester hermatic seal connector



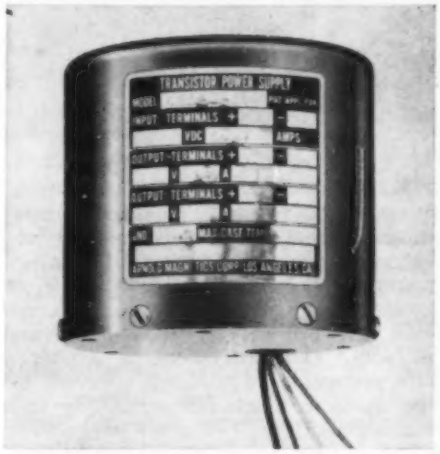
on the bottom for quick connection to the power source.

Case size—3½" wide x 1-7/8" deep x 3-7/16" high. Figures—3/16" high x 9/64" wide. White on black background, with wide window opening for maximum readability. Speeds —1500 CPM or 25 CPS standard, with maximum resetting time of 105 milliseconds. Voltage—28 V. DC—Other voltages available on special order. Finish—Gray color 36492 per federal standard 596 for military panels.

Fill in No. 113 on Subscriber Service Card.

Power Supply Produces DC to Square Wave

Arnold Magnetics Corp. has announced a transistorized power supply that will produce 400 cps single-phase, square wave power from a 28 volt DC line.



Unit delivers 50 VA of output power with a frequency and voltage regulation of ±1% for variations of input voltage of 5 volts. An output power of 115 volts, 400 cycles is standard, but any voltage between 6 or 1200 VRMS, and any frequency between 400 and 2000 cps, is available on request.

Protection against internal damage is provided by the use of an added circuit, which has the effect of rendering the power supply non-operative when the polarity is inadvertently reversed. Unit can withstand short circuit indefinitely, input voltage transients of 60 volts for 0.01 seconds, and 50 volts indefinitely at reduced power. Voltage drift is ±3% across a temperature range of from −55°C to +71°C.

Designated Model 591AC, unit is fully incapsulated and hermetically sealed, and meets the test specifications of MIL-E-5272B. Size is 3" OD x 3-3/16" high, and weight is 22 ounces.

Three standard terminations are available—A/N connector, wire-lead pigtail, and solder-lug terminals.

Fill in No. 114 on Subscriber Service Card.

Pneumatic Hose Has 24,000 Psi Burst Pressure

Aeroquip's Development-Engineering Center offers 678 Hose of Teflon for 6000 psi pneumatic systems and with a 24,000 psi burst pressure. 678 Hose is designed for the more severe requirements of missile pneumatic charging systems. The 4 to 1 safety factor of the hose provides greater safety to crews handling very high pressure air, helium, nitrogen, and other gases.

The hose has a Teflon tube with zero moisture absorption and an anti-adhesive surface to permit fast, easy purging and dehydration of hose lines and equipment. Spirally-wound stainless steel wire overlaying a stainless inner braid reinforces the hose, which has a stainless braided cover. Though constructed for use under rough handling, it retains flexibility making it easy to coil on reels. It is available in in -6 (3/8") and in -8 (½") sizes.

New segmented fittings for 678 Hose are reusable and incorporate a proven lip-seal for permanent leakproof performance. Designed concurrently with the 678 Hose is a lighter weight pneumatic hose for 3500 psi pneumatic systems. Designated 675 Hose, it features a Teflon tube and two-ply stainless steel wire braid reinforcement. With the exception of pressure requirements, it has the same characteristics of the 678 Hose and other Aeroquip Hoses of Teflon. It is available in sizes −4 (¼") to −12 (¾"), and fittings are of the reusable "super gem" type.

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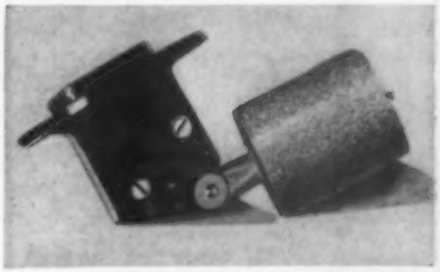
FRI Float Switch To Close Circuits

The Flight Refueling, Inc. Model FS-2 Float Switch is ideal for use in any system where it is required to operate electrically actuated valves and



indicator light systems. It can be used for closing a circuit either by the rise or fall of a fluid level. Switches of this type can be used for both ground, aircraft and missile installations with the highest degree of reliability. A variety of float arm configurations are available to suit alternate requirements. Other float switches of this general type are available on special order for varying fluids and for special applications.

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I INSTRUMENTATION WIRING

C COMPLETE INSTALLATION

B BASE COMMUNICATION SYSTEM

M MISSILE GROUND SUPPORT SYSTEMS

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. . . new products

Monitoring Equipment Tracks Interference

The Mobile Interference Analysis Station assembled by Missileonics, Inc. of Melbourne, Fla., locate, track down, and record interference; and are able to eliminate any interfering radio signals by coordination with area frequency users. These signals may affect radio control of missile firings, or the telemetry signals from the missile.

The stations monitor radio signals in the frequencies from 1500 kilocycles to 10,000 megacycles. Advanced direction finding and field intensity equipment coupled with the ability of the stations to traverse cross-country roads, afford a quick means of locating the origin of any interfering radio signal. The stations are installed in specially designed truck vans constructed by Gramm Trailer Corp., Lima, O., and mounted on a heavy-duty Ford chassis, fitted with power steering and power brakes. Complete air conditioning and heating equipment are furnished, and independent gasoline-driven generators supply up to 7 KVA for operation of the electronic equipment.

Fill in No. 117 on Subscriber Service Card.

Pipe and Tube Connectors Offer Advantages

Meeting the high pressure, temperature and minimum weight requirements of the aircraft and missiles industry, Flight Refueling Inc.'s complete line of pipe and tube connectors offers many additional advantages. Positive grip and seal under conditions of angular misalignment, parallel axial offset and tube gaps assure a constant connection on beaded or flange type tubing.

One family of connectors provides for easy hand installation in hard-to-get-to places, where wrench movements are prohibited. Connectors are available in sizes from ¾" to 4½".

Fill in No. 118 on Subscriber Service Card.

Low-Cost Standards Used For Ground Support

New low-cost frequency standards which perform well in uncontrolled environments such as found in the operation of military ground support equipment and industrial applications, have been developed by The Gyrex Corp.

Resonant elements of the new Model TQ 60C units operate at their fundamental frequencies. This feature eliminates the need for auxiliary step-down circuitry, giving the instrument exceptionally high reliability. They can be operated or stored over a wide temperature range. Shock, vibration and atmospheric conditions normally found in connection with the operation of ground support equipment will not affect their operation. All units are hermetically sealed and qualify to MIL environment test specifications for ground support equipment.

Other advantages of the new Model TQ 60C units include simple transistorized circuitry and compact size.

Fill in No. 119 on Subscriber Service Card.

Miniature Accelerometer Is Developed

A new accelerometer measuring only 1" x 1" x 1¾" and weighing just three ounces, has been developed by Genisco, Inc., Los Angeles. A potentiometer-type pickoff is used.

The small size and light weight of the new instrument, designated Model GMA, makes it particularly suited for aircraft and missile fire and flight control systems and telemetering applications.

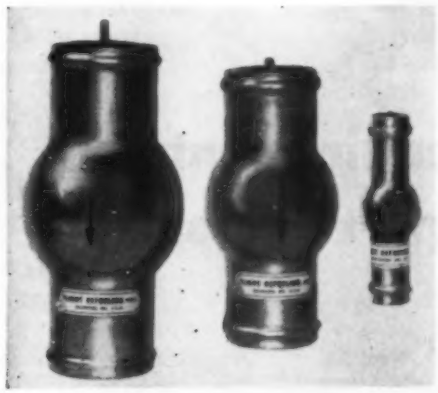
Range of the Model GMA is ± 0.5g to ± 100g's with natural frequencies of from 12 cps to 75 cps. Linearity is ± 1% of full scale for balanced range instruments. Damping, nominally 0.7 of critical at +75°F, is provided by the shearing of silicone fluid between closely spaced moving surfaces. The instrument is temperature compensated and will operate to specifications between −20°F and +250°F.

It is able to withstand vibrational accelerations of 10g's, 10 to 20,000 cps, on any axis, and shock accelerations of 50g's for 7 ms duration on any axis.

Fill in No. 120 on Subscriber Service Card.

Versatile Missile Check Valve Is Lightweight

Flight Refueling Inc.'s Model CV-1 missile and aircraft check valves are lightweight, reliable and extremely versatile. Standard beaded AND-10060 (type A) ends permit rapid in-line installation by using two pipe connectors. In the interest of weight reduction,



these check valves may be incorporated into any long tube merely by expanding a small end section of the tube, thereby eliminating one pipe connector.

These operationally proved valves are positive sealing and feature low "cracking" pressure and low pressure drop. Design makes it practical for use with most fluids and gases. The CV-1 is also available with threaded ends for special applications.

Fill in No. 121 on Subscriber Service Card.

Aluminum Shelter Is Air Transportable

Gramm Trailer Corp. offers shelter of continuous ribs of extruded aluminum, located between end panels so equipment can be supported properly in any area. Longitudinal members are welded to rib sections at the four corners. Equipment can also be fastened to these members for support. The skid is integral with the bottom longitudinal members for strength as well as simplicity of design. All inside dimensions are square so equipment may be mounted flush against the wall. The inside may be lined with plywood, sheet aluminum, or perforated metal to suit individual requirements. Hardware is flush mounted to minimize damage. Dutch door comes equipped with flush frost breaking hardware as standard equipment.

This shelter is air transportable and can be transported by C-119, or C124, helicopter and M-35 truck.

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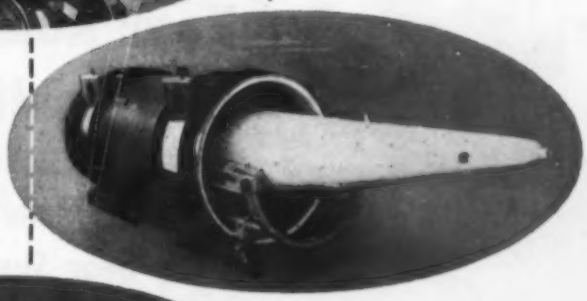
HARCO

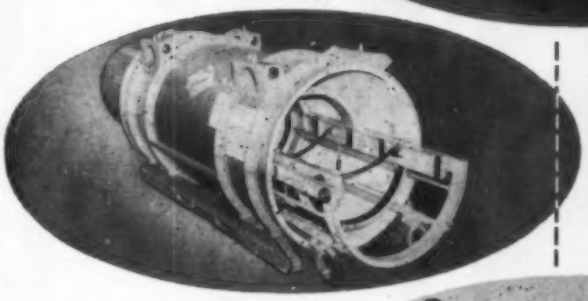
a PROVEN source

OF FIBERGLASS CONTAINERS AND INTEGRAL GROUND HANDLING TRAILERS

LOADED CONTAINERS
Measuring 18½' long, 4½' diameter and weighing up to 4800-pounds when loaded with in-flight refueling stores and integral trailer, can be stacked 3 high to conserve storage space.

FAST UNLOADING OF REFUELING STORES
Less than 60-seconds required to remove end sections, through use of unique Vee-band clamps, greatly speeds unloading of stores on integral ground handling Harco trailer.





TRAILER IN PLACE FOR RETURN TO BASE
Harco Containers are a complete system for storage, transport and ground handling of critical stores; important part of system is Harco developed trailer which is returnable within container for re-loading.

END SECTIONS REVERSED FOR RETURN SHIPMENT
Overall length is reduced by half for empty-return shipment, conserving valuable shipping space. Use of fiberglass reduces container weight by 60%; is impervious to rust or corrosion; easily repaired in the field.

Harco Containers are the **only** fiberglass containers for storage, transport and handling of in-flight refueling stores approved by BuAer. Features include 60% reduction in weight, reversible end sections to cut return shipping size by ½, integral ground handling trailers for stores, 60-second availability of stores through use of quick release Vee-bands on end sections. Two years of field service prove their superiority. Other Harco Containers available for missiles, jet engines, re-fueling system components, electronic equipment.

write for literature and quotations on your container and ground handling equipment requirements.

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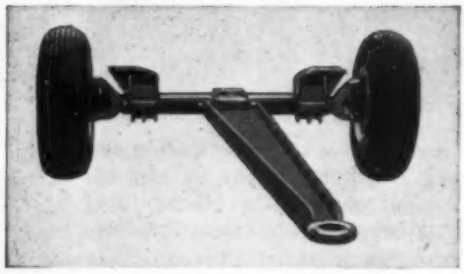

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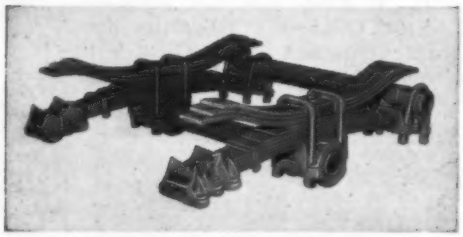

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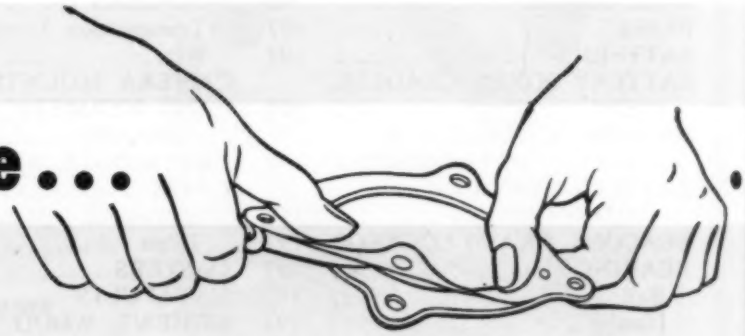

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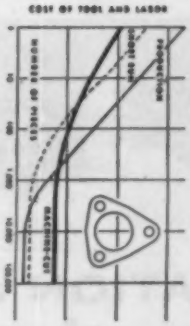

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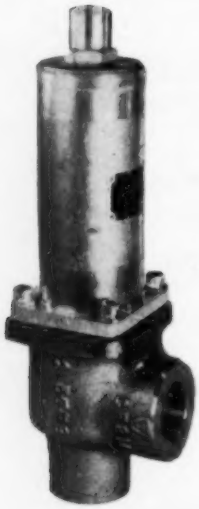

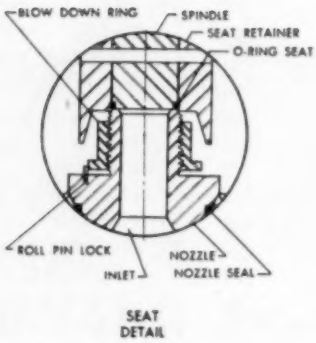

Relief valve with replaceable O-ring seat

Bubble-tight operation up to set pressure is now possible with Anderson, Greenwood & Co.'s Type 3 Relief Valves. This new design uses replaceable O-ring seats to give perfect sealing and reseating qualities over a long dependable life — even on helium at 7000 psi. Write for catalog 151.

ANDERSON, GREENWOOD & CO.
1400 N. RICE AVE. BELLAIRE, TEXAS

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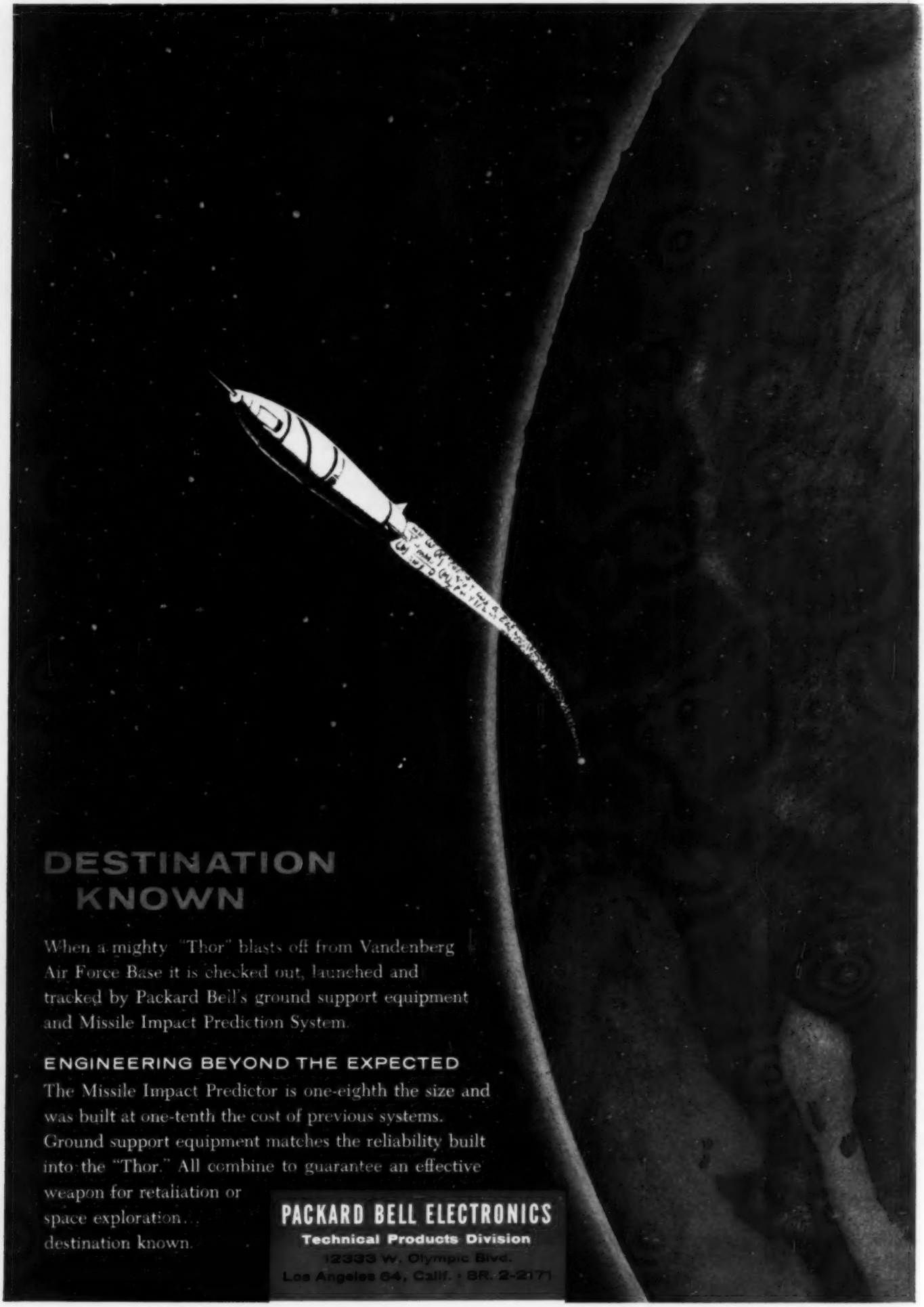
CHECKOUT EQUIPMENT

This equipment determines prior to launching whether all portions of the missile will or will not perform as intended. It is used to check out warhead, guidance, control and propulsion systems.



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New Products

• checkout equipment

CHART RECORDERS USE ADVANCED COMPONENTS

New circular chart recorder-controllers, with either electric or pneumatic controls, have been introduced by the Daystrom-Weston Industrial Division of Daystrom, Inc.

The new circular chart recorders employ advanced components, such as the division's recently developed D-Pak unit, and other improved mechanisms "to provide greater instrument reliability and service in process industries," according to the company.

All models of the new recorder-controllers feature the revolutionary D-Pak constant voltage supply unit which eliminates batteries, standard cells, and standardizing mechanisms in potentiometers; interchangeable slidewires, easy replaceable range standards, plug-in amplifiers, universal mountings, recessed indicator pointers to facilitate chart replacements; and rigidly supported scales on back of the plate assembly to permit easy calibration and indicator readings with the door open.

Pneumatic controls—in models 6836 potentiometer and 6856 Wheatstone bridge—are available as universal controller, proportional plus automatic reset, or proportional with automatic reset and derivative; proportional band adjustability—2 to 300 per cent. The proportional controller with reset, or reset and derivative, is recommended for more complex processes with high capacity or where appreciable transfer lag and/or dead-time is present.

Optional 4-position pneumatic transfer switch—automatic, manual, test, and service—provides complete control loop flexibility (supply air at 20 psig; controlled air at three to 15 psig). Piping of the "flip switch" also provides true bumpless transfer since gage accuracy is not a governing factor.

Electric controls—in models 6833 potentiometer and 6853 Wheatstone bridge—are available as contact type (two-position or three-position) and

proportioning control with 5, 10, or 20 per cent proportional band.

The control mechanism is directly coupled to the slidewire shaft, eliminating lag and backlash inherent with linkage and cams. According to division engineers, the unusual design of the control mechanism eliminates chatter due to vibration with even the narrowest differential and, being completely enclosed, insures long trouble-free performance under adverse atmospheric conditions.

The new null-balancing type circular chart recorders are designed for a-c operation only; 115 volts, 60 cycles; or 115 volts, 50 cycles as specified; accuracy of plus or minus 0.25 per cent of span, or .025 mv. Design features include 12-inch chart with full scale pen travel of 4-5/8 inches; 33.86-inch long, 320° concentric scale; large easily read numerals; many standard calibration ranges for potentiometer or Wheatstone bridge; full-scale response time of 5, 10, and 20 seconds; enclosed connection terminals; and standard chart speeds.

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Theta Instrument Makes System Error Bridge

With the Theta-Bridge the angular position of any synchro or resolver inaccessibly located within a complex system can be directly measured without any mechanical coupling. The only connection is via the electrical leads of the synchro or resolver. Loading of the system is avoided through use of very high impedance elements in Theta Instrument Corp.'s new device. It is also used to simulate a perfect synchro or resolver input to a system. Three dials display angular position digitally to three decimal places over a 360° range. The initial calibration to a particular system is accomplished without the necessity for mechanical rotation of any part of the system, and without the necessity for adjusting the system voltage excitation to an accurate level. Specifications: Accuracy, 10 sec. of arc. Readability, .001°. Size, 19 in. wide by 10½ in. high by 8 in. deep.

Fill in No. 124 on Subscriber Service Card.

New Five-Channel Timer Has Low Contact Bounce

An extremely accurate, fixed position Interval Timer which limits contact bounce to within a range of 50 to 300 microseconds has been developed by Western Design & Manufacturing Corp., Santa Barbara, California, a division of U. S. Industries, Inc.

Currently utilized by two major aircraft companies in aircraft and missile systems checkout under severe environmental conditions, this compact electromechanical device is designed to provide highly accurate switching operations at precise time intervals for electrical circuits. Timing cycles may be as short as a second or as long as several hours.

With up to five independent channels available in the standard unit, events may be sequenced simultaneously or in a series, or in a combination of both. On special order, the number of channels may be increased to 10 as the synchronous motor has ample torque to handle the increased operating load.

The Western Design Timer, in addition to the synchronous motor, consists of a unique cam and positive action contact arrangement in which one set of contacts makes the circuit and the other set breaks the circuit. This action sharply defines the start or finish of any pulse and is accomplished by the use of abrupt discontinuities on the cam surfaces which permit the tripping points to be set precisely. The speed of contact operation is independent of the speed of rotation of the cams.

This unique design reduces duration of contact bounce to an absolute minimum. Total contact bounce on the circuit make and break is so slight it can be measured in microseconds, less than 300 microseconds on make, and less than 50 microseconds on break in production line units.

Contacts are designed for a load current of at least 0.5 amperes and are capable of operating satisfactorily with higher currents depending on the type of circuits and duty cycle required.

Because of the synchronous drive motors, the tolerance of the timing pulses is held to ±1/5 of one percent or ±10 milliseconds whichever is greater. These tolerances are relative to a 60 cycle or 400 cycle time base accuracy.

A variable speed drive may be used so that one channel of the output pulses of the timer may be fed back into a closed loop servo system which will automatically synchronize the timer function with an external process.

The Interval Timer is supplied to operate at various input voltages on 60 cps and 400 cps alternating current lines or on direct current. Diminutive in size, the units are 5 inches long, with a 2.2 inch diameter and weigh as little as 1.5 lbs.

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Transistorized Tachometer Goes on Market

To fill the need in industry for a moderately priced indicating instrument suitable for numerous applications, Kahn and Co. has developed and put on the market their Transi-Tach Transistorized Tachometer.

The Transi-Tach is available in three basic models—for 19" rack panel mounting, as a portable unit, or with remote indicator. All models are self-powered by a 9-volt battery, but can also be used with 115 volts, 60 cycle AC.

The Transi-Tach indicates the speed of rotating shafts through the use of a magnetic or other speed pickup. RPM is read directly on a large meter scale which can be calibrated in any speed range desired with as many as 120 linear scale divisions. Speeds up to 60,000 rpm can be accurately measured. Zero suppression can be built into the scale to enable scale expansion within a desired speed range.

Since it is essentially a frequency meter, the Transi-Tach can be supplied as such for the measurement of audio or ultrasonic frequencies. It may also be adapted for use in conjunction with any transducer which converts flows, pressures or other physical forces into electrical signals of variable frequencies. Accuracy is plus or minus 2% of full scale of the meter reading. The proper transducer for each application can be supplied by Kahn and Company. Complete information is contained in illustrated bulletin which is available from Kahn and Company, Inc.

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Manometer Model TA Has 25 Tubes

Dynametrics Model TA Tiltable Manometer, Dynametrics Corp., is designed for operation as either a standard vertical manometer or a slant tube manometer at any selected angle from 11° to 90°. This mobile, backlighted unit has 25 tubes mounted in a rigid box frame. The frame is balanced in precision line-bored pivots on the mobile stand, and has a manual-locking adjustment to fix the frame at any desired angle between vertical and 11° of horizontal. Slanting the bank increases the sensitivity of fluid height indication over smaller ranges and permits a more accurate pressure measurement. Zero register is accurate on all tubes even at the greatest tilt angle. When used as a standard vertical unit, the Model TA retains all the favorable characteristics of the Dynametrics multibank and multitube manometers.

All tubes are manifolded to a single, manually adjustable reservoir. A vernier is provided for fine adjustment at angles near the horizontal. To reduce the quantity of fluid necessary, the pyrex tubes have a smaller than standard bore. The accurate co-planar scale sheet is backlighted for photography and is graduated in inches and tenths of inches. The stand is mounted on 4 swivel casters for mobility and has built-in leveling jacks and level indicator for precise set up after locating.

As in all other Dynametrics manometers, the Model TA can be equipped, at slight extra cost, with a metric scale, check valves, or other standard accessories. One model of this unit is standard: TA-25-60 (25 tubes, 60" scale height).

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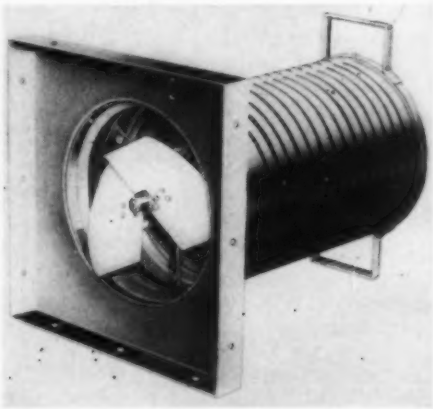
Sun Electric Improves Electric Power Absorber

An improved version of their versatile Electric Power Absorber is announced by Sun Electric Corporation. The unit is used extensively in aircraft and missile testing systems applications. It is compact and has a low weight factor in relation to power absorbtion and heat dissipation. 10 to 15 KW capacity is claimed for AC use and up to 450 amperes at 30 volts DC.



New features include a front mounting panel for stacking units to conserve space. Mounting panel is only 13 inches square, overall length approximately 18 inches and weight 18 to 20 pounds depending on capacity.

A low temperature coefficient resistance ribbon within a slotted housing is cooled by ambient air drawn through a cooling tube by an internally mounted fan and motor. The motor may be operated as a part of the load or from an independent power source.

The unit is easily wired and is fully protected against overload. Infinite variable loading within the range of each unit can be achieved by the addition of a carbon pile or similar variable resistor.

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Creators of over 6,000 Precision Switches and Controls

presents . . . A new panel concept that promises to revolutionize monitoring or control of Missiles and Rockets

the astromatic panel concept

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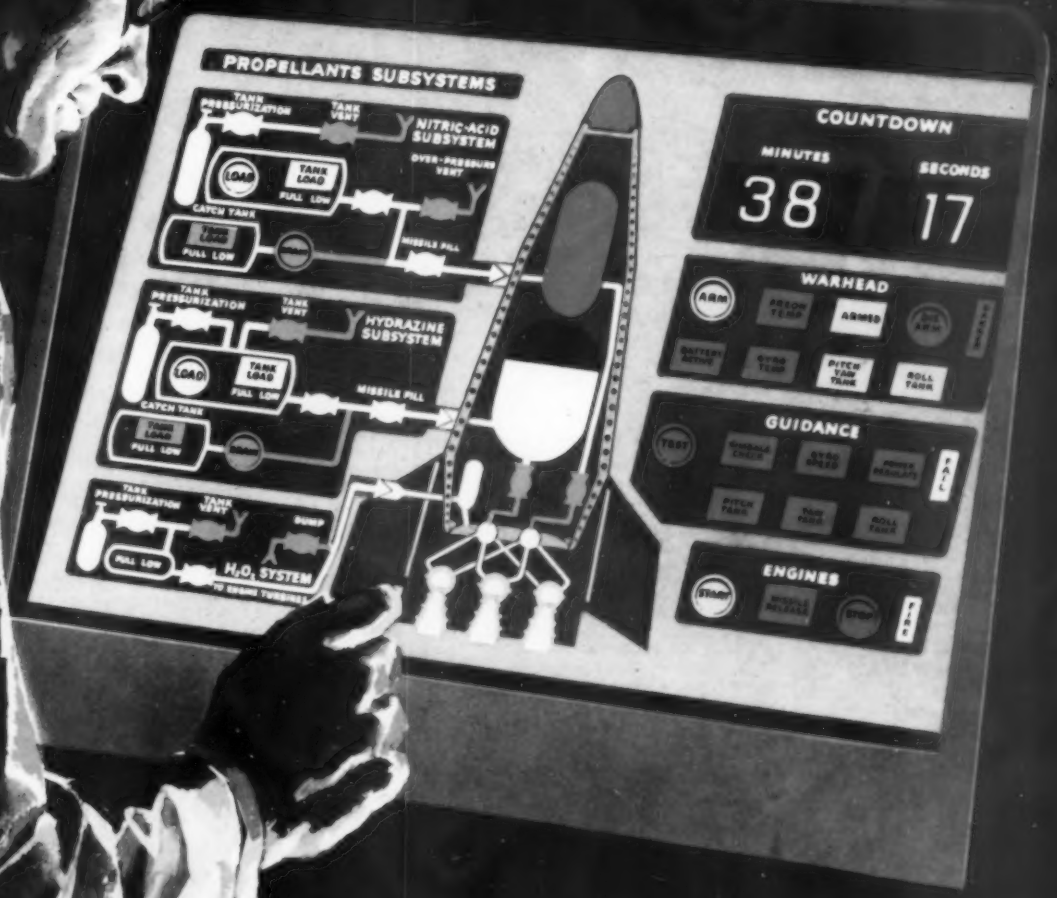
- ★ ALLOWS REMARKABLE CONSERVATION OF VITAL SPACE
- ★ WITHSTANDS EXTREME LIMITS OF TESTING SPECIFICATIONS
- ★ APPLICATION POSSIBILITIES AS UNLIMITED AS THE IMAGINATION



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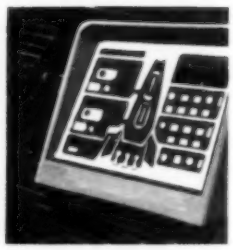
This new concept in panel techniques combines the latest advances in scientific, technological and psychological achievements to insure the highest possible degree of efficiency and accuracy in control or monitoring of equipment.

HUMAN FACTOR ENGINEERED for highest efficiency with extreme accuracy

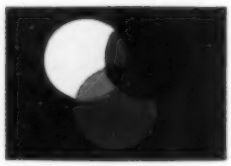
100% FLUSH PANEL . . . Eliminates protruding hardware . . . unless specified by human engineering requirements. Switching functions may be recessed, flush, or over-flush.

TRI-COLOR LIGHTS . . . Each light module contains 3 separate bulbs and circuits to permit triple indications such as GO, NO-GO and CAUTION signalling.



CONCENTRATED GROUPING OF CONTROLS . . . Multiple function of TRI-LITE controls permits high component density, saving from two to four times space required by ordinary panel. Permits instant visual recognition and action by operator, minimizing time-loss found in larger panels.

VERSATILE SWITCHING . . . The switching and indicating techniques are specifically designed for maximum compatibility with this advanced panel. Momentary, positive feel and alternate action switching is available.



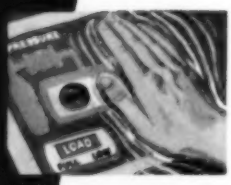
LIMITLESS COLOR COMBINATIONS . . . The unique combination of TRILITES plus multi-color photo printing of panel allows unlimited color guidance, distinctly identifiable even by color blind.

SCHEMATIC DIAGRAMMING . . . Photo color printing of panel surface permits visual schematic diagramming. Increases speed and efficiency of operators and recognition of system indications. Reduces indoctrination period for operator training. Eliminates the written word.

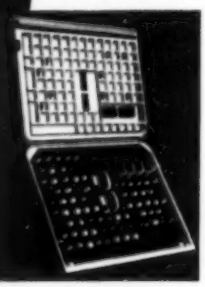
PRECISION ENGINEERED

. . . Meets or exceeds most exacting specifications

SHOCK AND ABUSE TOLERANT . . . Laminated Fiberglas panel resists chipping, shattering, crazing. Coefficient of expansion identical to aluminum sub-assemblies eliminates buckling under stress or extreme cold or heat conditions.



LASTING LEGIBILITY . . . Exclusive process imbues color into Fiberglas . . . resists wear-off of legend and diagramming. Vivid colors actually photoprinted—will not chip or scratch off. Meets all requirements of MIL-P-7788 for Aircraft Cockpit Panel.



QUICK LAMP REPLACEMENT . . . Front panel hinged for quick access to components below, permitting 10-second bulb change if necessary.

EASY TO ALTER . . . During prototyping legend and schematic diagramming can be easily changed to visualize any new findings. Components under panel may be relocated.

VERSATILITY OF DESIGN . . . The module concept of construction makes the Astromatic panel technique extremely versatile. WHATEVER ACTION YOU DESIRE TO VISUALIZE, ASTROMATIC CAN SUBMIT A PANEL DESIGN TO SURPASS YOUR EXPECTATIONS.

MAIL COUPON BELOW FOR ADDITIONAL TECHNICAL INFORMATION . . . OR PHONE ROBERT PROVART, TECHNICAL DIRECTOR **COLLECT, VAN BUREN 6-3100**

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4218 W. Lake Street, Chicago 24, Illinois

Gentlemen: ☐ Have your Design Engineer call for an appointment.
☐ Please count me in on any Symposium held in my area.

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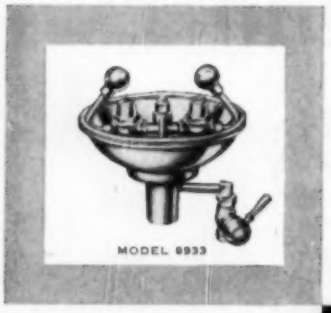

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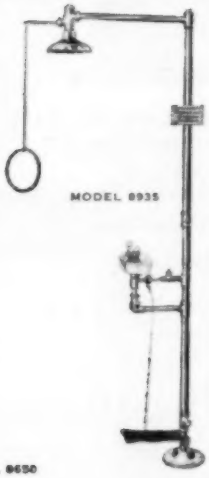

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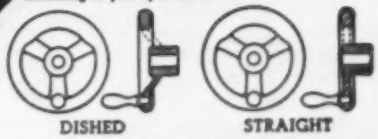
Handles are revolving, solid or omitted. Available in standard sizes 4" to 12" dia. with plating, broaching or other machining to your specification.



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• clamping levers

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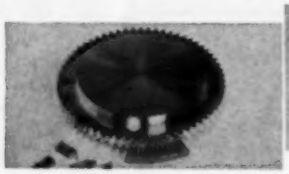

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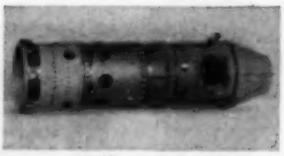
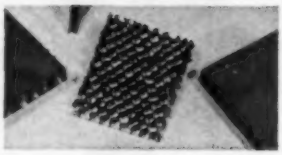

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missiles and rockets
1001 Vermont Ave., N.W.
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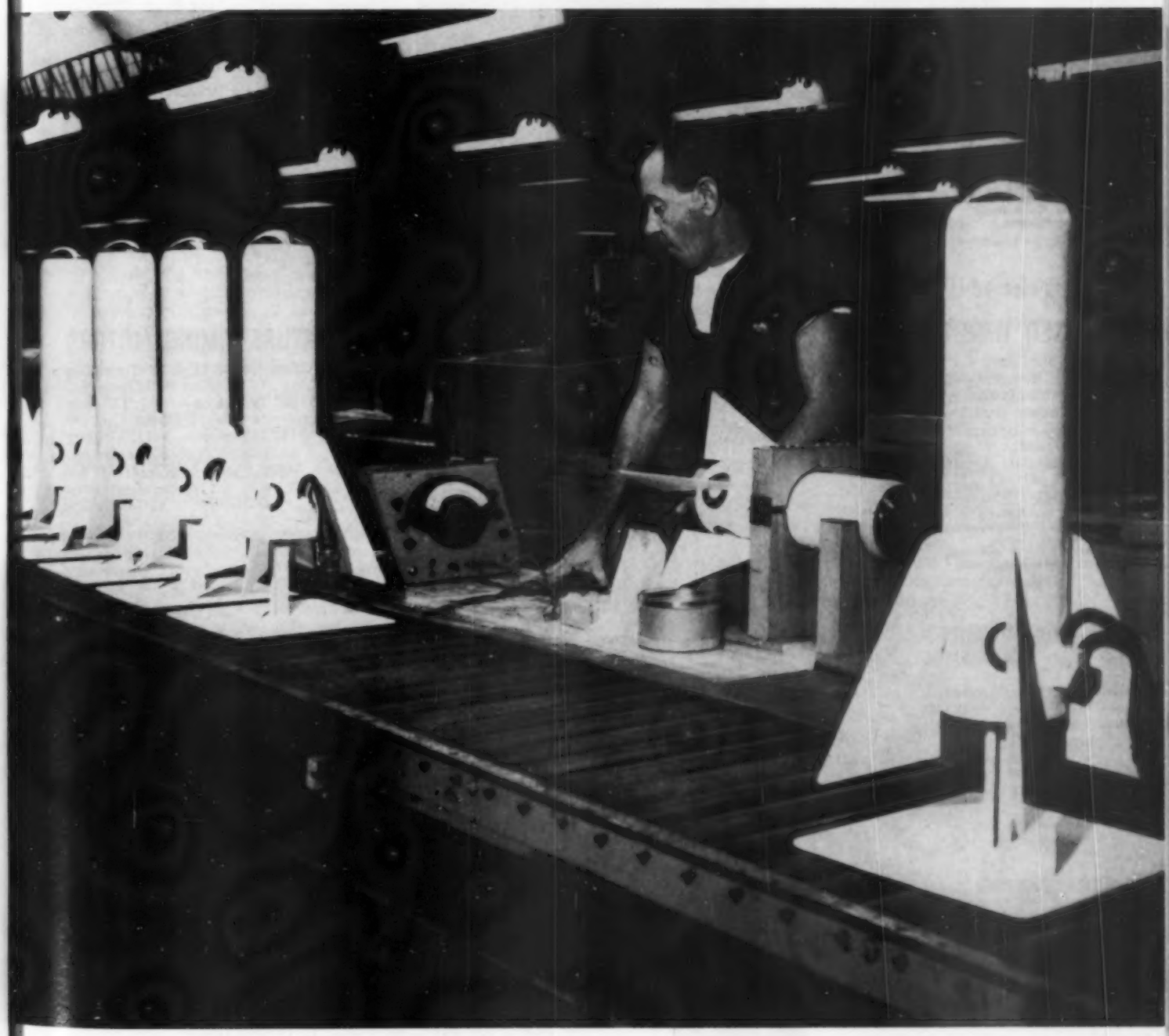
GUIDANCE EQUIPMENT

Guidance equipment (electronic, inertial, optical) determines where the missile is relative to where it should be in order to hit its target, and subsequently issues corrective instructions to the missile control system. Guidance equipment also includes the control system that makes the missile change its direction of flight: the fins, hydraulic, electrical or mechanical circuitries, actuators, jetavators, jets, and so on.



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Rugged & Reliable
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REPEAT CYCLE TIMERS

— 3" long (Typical)
— 6½ ounces basic
— 1-8 switches (Standard)
— Cycle Time 5 sec. to 90 Min.
— Loads to 5 Amperes

Write for Bulletin AWH RC-301

SUB-MINIATURE ELECTRO-MECHANICAL TIMING DEVICES

Features
Hermetically Sealed Housings
¼ Size
— ½ Weight of Standard Designs
1 x 2 Cross-Section
DC, 60 or 400 CPS
Meet MIL-E-5272A

TIME DELAY RELAYS

— 3" long (Typical)
— 7½ ounces basic
— 1-3 switches (Standard)
— Time Delays
— 25 Sec. to 3 Hours
— Loads to 5 Amperes

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— Sub-Miniature — Hermetically Sealed
— 1¼" Diameter — 2⅞" Long (max.)
— 3 Watts maximum power
— Digital or Dial Type
— 60 cps & 400 cps models cataloged
— DC Models Available
— Meet MIL-E-5272A MIL-M-7793B

Write for Bulletin AWH ET-602 describes 400 cps models AWH ET-603 describes 60 cps models

MINIATURE TIMING MOTORS

— Compact — High Performance
— 60 or 400 Cycle AC
- 15/16" Diameter — 1 7/32" long
— Direct Current
— 13/16" Diameter — 1 11/32" long
— Submit problem statement with motor requirements for recommendations

ELECTRONIC TIME DELAY RELAYS

Features
Hermetically Sealed Housings
Variety of Circuits
Temperature to 250°F
Vibration to 2000 cps, 15 g
Meet MIL-E-5272A
Unique Transistorized RC Time Constant network
Time Delays 50 MS to 120 sec.

Miniature Series

— 1 7/16" x 1 21/32" x 2½" long
— 1-4 SPDT contacts
— Loads to 10 Amperes
— Weight — only 6 ounces
— 5½ Watts maximum power

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Sub-Miniature Series

— 31/32" x 1 3/16" x 2" long (max.)
— 1-2 SPDT contacts
— Loads to 8 Amperes
— Weight only 3 ounces
— 4 Watts maximum power

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CUSTOM DESIGN & MANUFACTURE OF ELECTRONIC AND ELECTRO-MECHANICAL TIMING DEVICES

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New Products

• *guidance equipment*

MAGNETIC AMPLIFIER IS SMALL UNIT

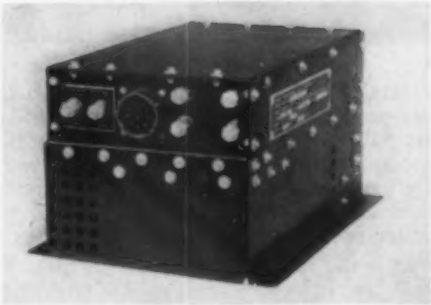
A new Variable Output Magnetic Amplifier for aircraft and missile use has been developed by the Vap-Air Aeronautical Products Division of Vapor Heating Corporation, Chicago, Ill. It is said to be the smallest in size and weight of any unit of this type available. It has an output of from 0 to 2000 watts.

The Variable Output Magnetic Amplifier can be used in many aircraft and missile systems including windshield temperature control, heater control, and motor speed control.

The advantage of the Variable Output Magnetic Amplifier over the on-off type is the modulating output, eliminiating power surges in the aircraft or missile electrical system.

It also replaces three units normally used in a system; the temperature controller, power contactor, and the transformer.

Combining the functions of these units into a single control eliminates, 1) extra AN Connectors and harness to tie them together, 2) moving electrical contacts in the control box and contactor, and 3) installing three units.



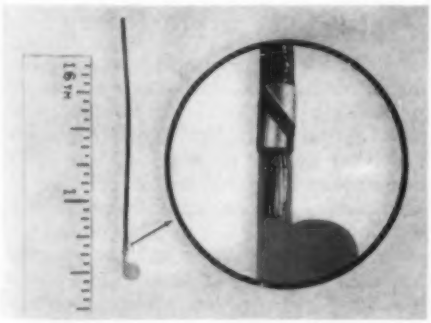
The controller also offers fail-safe features which will shut the controller off in the event of loss of power, pickup short, or pickup open.

In addition, the Variable Output Magnetic Amplifier has the ruggedness which is characteristic of mag-amps. The unit meets the requirements of MIL-E-5272A, is adjustable over a wide range, has the built-in reliability which mag-amps offer, and features extreme accuracy and repeatability of operation in ambients of minus 65° to 200°F.

Fill in No. 129 on Subscriber Service Card.

Miniature Terminals Are Resistant Welded

A new process has been developed by Manger Electric Co. to meet the terminating requirements of subminiature electronic assemblies. No longer limited to ready made terminals, terminations can now be designed to fit the assembly. These terminals can be securely welded to wire as small as A.W.G. #32.



Close tolerances are maintained and high flex life is assured. Engineering service is available to assist with any special terminating problems relating to all types of electrical terminations.

Fill in No. 130 on Subscriber Service Card.

Mouse Tails Eliminate Clamps

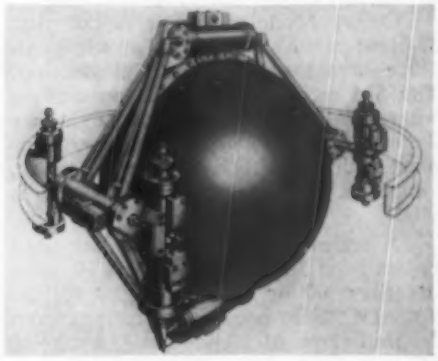
The electronic package for Boeing Airplane Co.'s IM-99 *Bomarc* interceptor missile utilizes a recently-developed "mouse tail" for securing wire bundles to the chassis. These "mouse tails" produced by Rubber Teck, Inc., are made of a tough rubber compound. They are available in lengths from 1 to 4 inches, and are tapered at each end. They are installed easily by passing one tapered end through a hole in the chassis, looping the shank over the wire bundle and inserting the other tapered end through an adjacent hole. When clinched up tight and the tension relieved, expansion of the rubber holds the "mouse tail" firmly in place.

A series of laboratory shake tests has proved that these "mouse tails" will hold firm under all environmental conditions expected during the missile's flight. Use of mouse tails eliminates the need for clamps or waxed string ties. As a result, both weight and a considerable amount of manufacturing time are saved. Rubber Teck has been chosen to be the licensee for their manufacture.

Fill in No. 131 on Subscriber Service Card.

Isolation System Protects Delicate Units

Walter Kidde & Co., Inc.'s pneumatic vibration isolation system protects delicate units such as missile controls, aircraft components, and sled test instrumentation subjected to large and rapid "g" load changes. The isolation system accomplishes this by maintaining its desired low natural frequency while limiting relative displacement at various load conditions. The system consists of three independent sets of servo-controlled gas springs, each set absorbing a component of the vibrational and acceleration loadings along one of three mutually perpendicular axes.



Fill in No. 132 on Subscriber Service Card.

Centerstripped Leads Permit Fast Assembly

Manger Electric Co. offers centerstripping as one of its custom wire processing services. The firm has developed equipment which removes the insulation from stranded or solid conductors of any gauge.

The stripped portion may be any length from a minimum of 1/8" and may be located at either regular or irregular intervals throughout the length of the wire. Leads can be cut, end-stripped, and counter-stripped as required, or they can be supplied in a continuous coil.

Centerstripping is of particular interest to manufacturers of products where multiple banks of electrical components have common terminating points. One continuous centerstripped wire can be used in place of two or more single leads.

Fill in No. 133 on Subscriber Service Card.

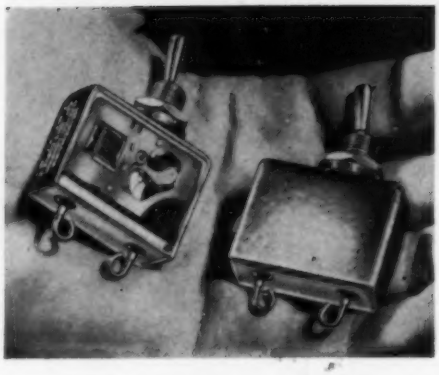
Circuit Breaker Weighs Only 2.1 Oz.

A hermetically-sealed circuit breaker of less than matchbox size has been developed by Heinemann Electric Co. of Trenton, New Jersey.

Called Model SM3, it is the first of Heinemann's SM series of sub-miniature breakers to go into production. The SM series is aimed at applications where small size and light weight are demanded, and where stable performance under varying conditions of shock, vibration, and ambient temperature is vital.

A series-overload breaker, the SM3 is designed for operation at 110 volts at either 60 or 400 cycles, or for 50 volts DC. It is available in ratings from 50 milliamps to 10 amperes. A choice of two time delay curves is offered, for fast or slow overload response, and the breaker is also available with instantaneous-trip response.

Since the SM3 combines magnetic actuation with hydraulic time delay, its current capacity and must-trip points are free from ambient temperature



effects. The breaker will maintain its 125-percent must-trip point from –65° to +125° Centigrade. No de-rating is necessary for temperature or vibration. The rugged, hermetically sealed construction assures dependable operation under severe environmental conditions.

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MISSILE - MINDED

31 years experience in aircraft engine parts

Headed fasteners in heat-resistant metals

Laboratory-controlled hardened and ground precision parts

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Division of Standard Screw Co.
HARTFORD 2, CONNECTICUT

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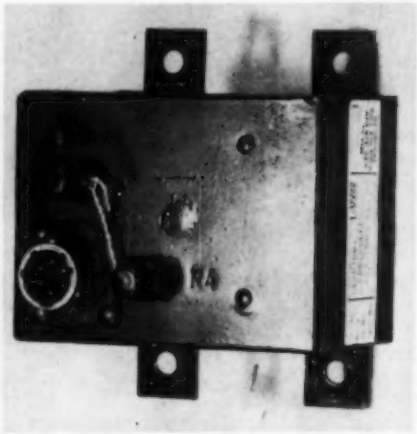
Magnetic Amplifier Is New On-Off Type

Vap-Air Division, Vapor Heating Corp., offers a new On-Off Type Magnetic Amplifier Controller that is claimed to be the smallest and lightest unit of its type on the market today. Encapsulated in epoxy, it can stand extreme shock and vibration, yet is smaller than a pack of cigarettes.

The controller has many applications in the aircraft and missile field, among them, windshield temperature control, heater control and overheat warning.



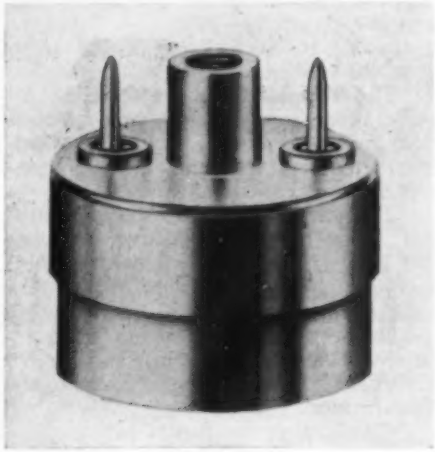
Ruggedness and reliability are characteristics of magnetic amplifiers. Other features of this unit are adjustability ± 25°F. of control point, accuracy, and repeatability of operation in ambients of minus 65° to 200°F. The amplifier meets requirements of MIL-E-5272A.

There are several built-in-fail-safe features which will shut the unit off in case of 1) loss of power, 2) partial or full pickup short, and 3) pickup open.

Fill in No. 135 on Subscriber Service Card.

Bimetal Thermal Switch Weighs ½ Ounce

Weighing ½ ounce, Control Products, Inc.'s "Button" switch is a high-temperature bimetal thermal switch which can be supplied with contacts for either close-on-rise or close-on-fall in temperature. The switch can be supplied calibrated at a maximum of 600°F or down to a minimum of –20°F with a possible close temperature tolerance of 2°F under laboratory conditions. Temperature differential and repeatability for a given switch is about 1°F. An overshoot to 800°F or undershoot to –100°F can be tolerated.



The switch can be mounted by lugs, soft soldered directly to, or recessed into the surface to be controlled, thus giving precise surface temperature measurement for applications such as aircraft and airborne electric equipment. It is available with single-wire or two-wire construction.

Hermetically sealed (metal-to-glass), it will meet the shock and vibration requirements of MIL-E-5272A Procedure I. The lower portion of the switch is ¾" in diameter and the upper portion is 25/32" to permit seating the unit in a recessed mounting. The overall height is ¾" including the glass seals and bushing.

Fill in No. 136 on Subscriber Service Card.

Price Electric Improves Crystal-Can Style Relay

Price Electric Corp., Frederick, Md., has announced a design improvement in its Style 6 Crystal-Can-size relay to improve reliability. An internal bracket has been added to support the relay mechanism and position it relative to the header, reinforcing the can in this function.

This design change has not affected the basic simplicity of the design, which does not require an armature hinge pin and thus eliminates the need for precision fitting of the armature hinge. The new bracket is said to improve uniformity and reliability of performance in vibration, shock, contact life, and other environmental exposures.

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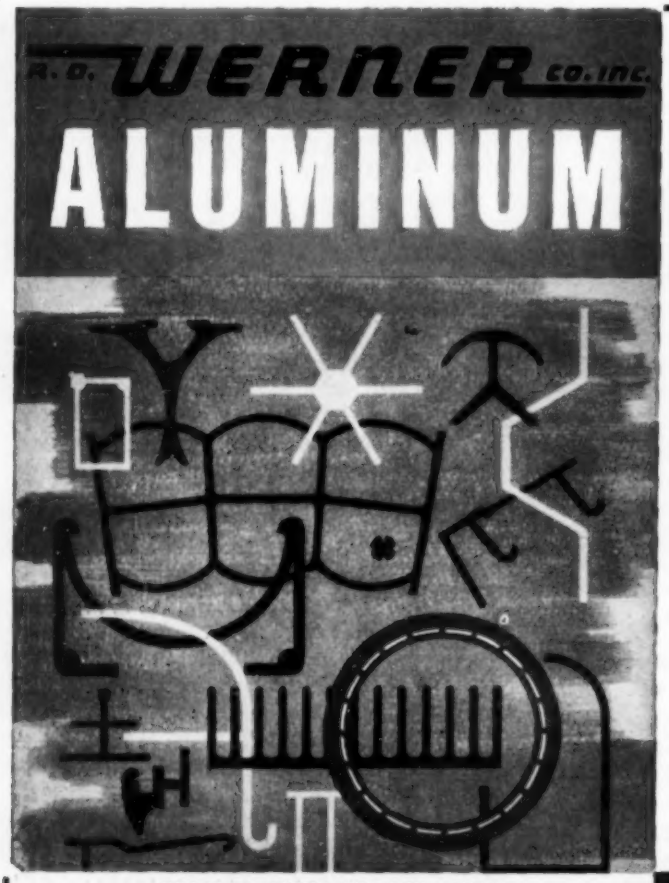

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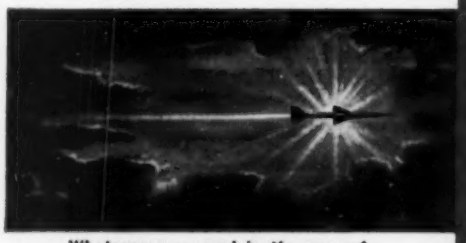
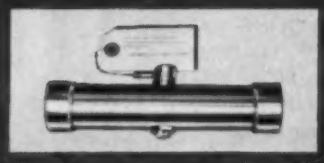
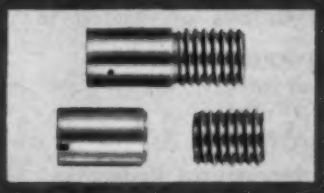




solid propellant rocket motors

emergency landing gear actuators



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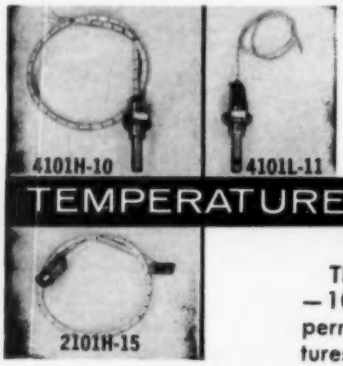

response:

200 MSEC

TEMPERATURE TRANSDUCERS

The newest line of Arnoux temperature transducers —100-ohm resistance, 200-millisecond response—permits accurate measurement of transient temperatures such as those in missile and aircraft applications. The output signal is 0-5 vdc for as small a span as 180 F, when Arnoux transistorized TME-1 or TME-2 systems or similar equipment is used.

The fluid-immersion transducer (4101L-11), for static or moving fluid, is LOX compatible and available in two calibration ranges: —302 F to —285 F, —320 F to +500 F.

The air transducer (4101H-10) is for static to high-velocity gases.

The surface transducer (2101H-15) is for materials of limited area and thickness, and has great mounting versatility.

Both air and surface types are available in two calibration ranges: —100 F to +500 F, —100 F to +1200 F.

Other Specifications:

Calibration accuracy: 0.1-1.0%, depending on temperature range

Repeatability and hysteresis: within calibration accuracy

Resistance at 32 F: 100 ±5 ohms

Nominal temperature-resistance coefficient: 0.0018/°C

Output: 0-5 vdc, when Arnoux 100-ohm TME is used.

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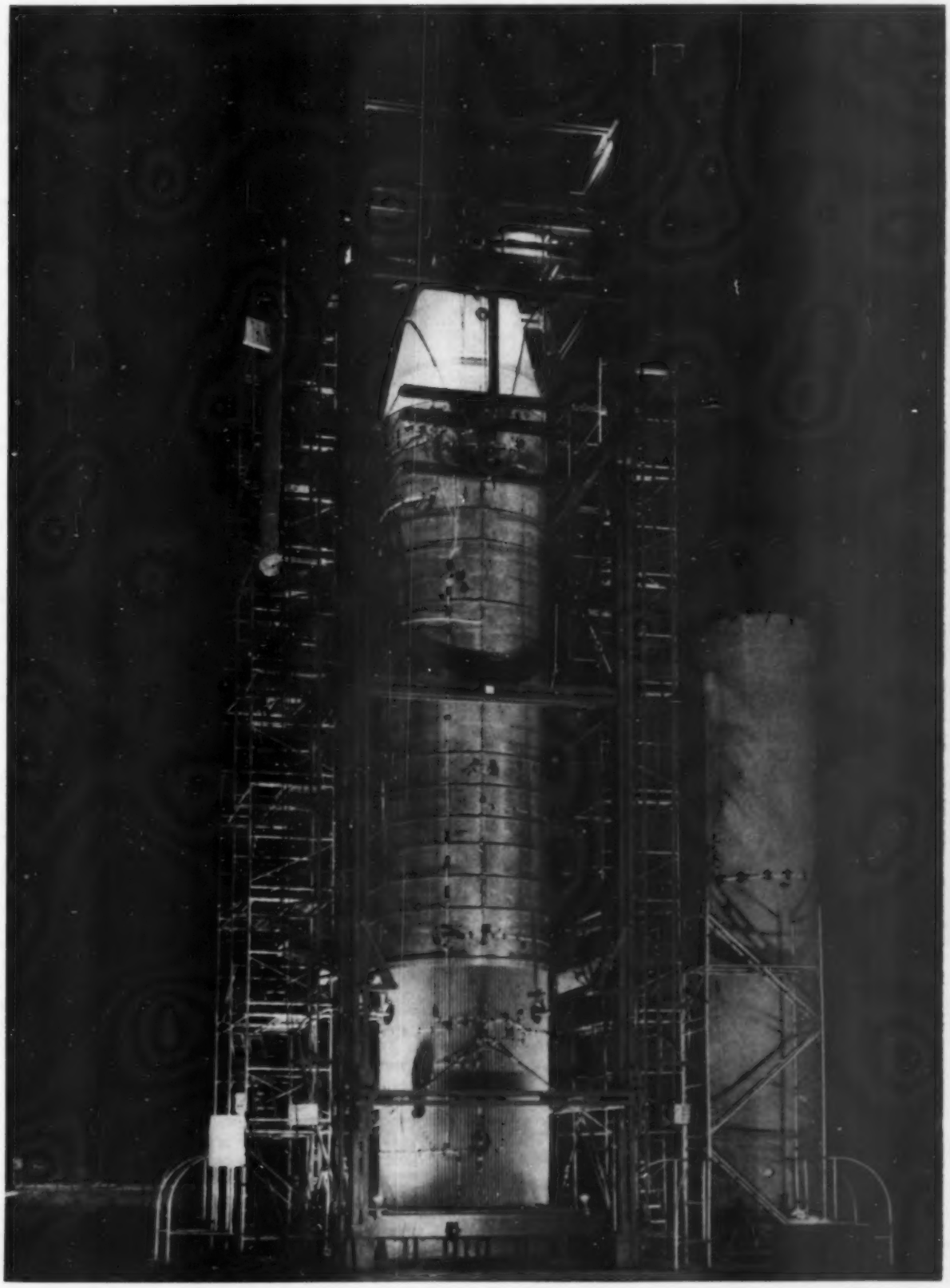
TEST EQUIPMENT

This includes everything in missile testing, ranging from checkout equipment through static test stands, launching pads and flight simulators.



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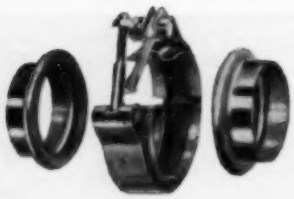
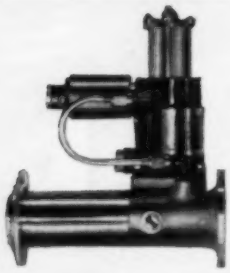


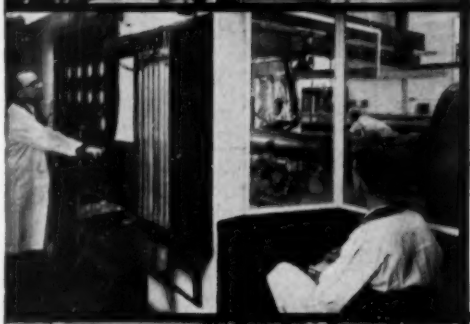
duct couplings / duct supports

Couplings provide metal-to-metal seal, fast disconnects, for high pressure, high temperature air ducts. Standard diameters 1" to 7", specials to 36". Separate or integral duct supports. Many materials.



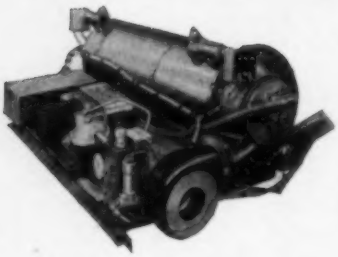
pneumatic controls

Multi-function weight-saving air valves and regulators manufactured to missile tolerances. Adequate staff for fast design and production changes.



Platular heat exchangers*

Combine efficiency of plates with strength of tubes into new economical modular design. Can fit into cramped, odd-shaped spaces in missiles and high performance aircraft for great variety of applications.
**Trademark of Surface Combustion Corporation.*



ground support liquid heaters

Standard units for vehicle, space, and fuel transfer applications. Available in capacities from 90,000 to 1,000,000 Btu/hour and can be combined easily for greater output. Now in service in a wide range of ground support equipment.

Janitrol development and test facilities provide proof in advance of reliable performance in service.

Contact your Janitrol representatives when you need components or systems for heat transfer or air control. Janitrol Aircraft Division, Surface Combustion Corporation, Columbus 4, Ohio.

JANITROL

pneumatic controls • duct couplings & supports • heat exchangers

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New Products

• test equipment

HIGH VOLTAGE TEST SETS BECOME AVAILABLE

Testing of high voltage electronic tubes, cables and bushings, as well as the dielectric strength of all insulating materials to ASTM standards is performed with the new super-duty line of HYPOT[R] high voltage test sets, announced by Associated Research, Inc.

The new Series 5700 DC HYPOT[R] models provide facilities for non-destructive proof testing of high voltage electronic equipment during production as well as at final inspection. They also meet the needs of preventive maintenance inspection of high voltage electronic gear, since they are readily portable.

The new super-duty models are housed in a single caster-mounted floor cabinet which affords more convenient operation and greater safety than do two-unit high voltage test sets.

All controls are located on the waist high panel which is sloped for easy reading. Two 4½" meters on the panel indicate output voltage and leakage current.

Many important safety features are incorporated, including the zero-reset high voltage interlock, quick acting overload breaker, and a safety screen between the operator and the high voltage output bushing.

A new "Amplivolt" power supply is incorporated in these models, having the selenium rectifiers, capacitors, and kilovoltmeter multipliers sealed in an oil-filled tank.

The output test potential is continuously variable from zero to maximum and indicated by metering directly in the final output.

Effects of corona, surface and phase leakage are eliminated by an advanced by-pass return (guard) metering circuit, allowing accurate reading of small leakage currents.

A bulletin describing these new super-duty models, as well as the complete line of AC and DC HYPOT[R] High Voltage Test Sets is available by request.

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Uni-Temp Has Greater Range and Accuracy

Increased operating ranges and greater accuracy are specified for resistance temperature measurement systems and components released by the Cardinal Instrumentation Corp. Marketed under the trade name of "UNI-TEMP," the new lines are designed on a "building block" principle which makes it possible to purchase either individual components or completely packaged systems.

UNI-TEMP systems cover the entire range of −320°F to +2000°F utilizing resistance temperature transducers. Maximum sensitivity is achieved through the material property of Balco and Platinum resistance wires which display high temperature coefficients

and excellent linearity characteristics. Resistance variations as a function of temperature, are changed into voltage variations by UNI-TEMP bridges and power supplies. This provides a full 5 volt output for direct reading on the UNI-TEMP readout module or as input to any standard recording, telemetering or readout device.

The new Cardinal systems require no amplifiers, reference junctions or special shielding—they eliminate the grounding problems inherent in thermoelectric assemblies. System accuracies are available up to ±0.1°F with LOX compatible platinum transducers and up to ±3/4°F with Balco transducers including high pressure applications.

Fill in No. 139 on Subscriber Service Card.

New Dynamometer Model Checks Gyro Motors

The Eder Engineering Co.'s Model 3366 Gyro Wheel Motor Dynamometer for checking the parameters of gyro wheel motors, is used for determining the characteristics for development purposes, and for production testing stators and/or hysteresis rings. The dynamometer measures stall torques and synchronous pullout torques.

For the synchronous pullout test (torque), the hysteresis ring is rotated at 100 RPM less than sync speed of the rotating electrical field of the stator.

Model 3366 Dynamometer comes in several torque ranges from 0-10,000 to 0-100,000 dyne cm ±2%. Other torque ranges are available.

The drive motor for the rotor or hysteresis ring can be obtained with almost any desired RPM. Model 3366 has the following RPM: 1200 ±12, 7800 ±50, 11,900 ±50, 15,900 ±50.

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Electronic Voltmeter Reads True RMS

The Bruel & Kjaer Model 2409 Electronic Voltmeter measures either the True RMS, peak or average values of voltages over the frequency range from 2 to 200,000 c/s. An accuracy of 0.5 db is obtained for RMS indication of signals with crest factors up to 5.

According to B & K Instruments, Inc., the Model 2409 may serve as a VTVM with full scale sensitivities of 10 MV to 1,000 V or as a calibrated decade amplifier with 60 db gain.

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TRACKING AND TELEMETERING EQUIPMENT

These devices (optical, electronic, or both) follow a missile in flight and report on how it is actually functioning internally. This equipment includes telemetry, radio, radar and optical devices.

The catalog sheets shown here are descriptive of HOBART power supplies available to aviation and avionics industries!

Only at HOBART... can you get such a wide range of units to meet any type of ground power requirement.

Hobart machines are available to match the new requirements of today's aircraft, whether 400 cycle a.c., 28 or 112 volt d.c. In addition to the airlines and corporate users, airframe, powerplant, component part, helicopter and guided-missile manufacturers look to Hobart to meet their power supply needs.

It will pay to look into this! You can get your operations under way sooner and keep costs down when you use Hobart power supplies. 50 to 1500 amperes are available with wide continuously adjustable 26 to 31 volt range for either reciprocating or jet engine starting and testing. For the new jet aircraft and missile check-out and launching there are in the Hobart line, 400 cycle generators in capacities ranging from 3.75 to 125 KVA. This equipment is available in electric motor or engine driven designs and in the type of mounting you need. In other words, no matter what kind of equipment you're looking for, you can get it at one source—Hobart!

The company planning ahead in the fast-moving aviation field will do well to check into Hobart Power Supplies. Your inquiry will promptly bring complete literature and information on the equipment of interest to you. WRITE, PHONE, or WIRE today!

MOTOR GENERATOR CORPORATION TROY OHIO
Hobart
AUXILIARY POWER UNITS

MOTOR GENERATOR CORPORATION
Hobart Brothers Affiliate
Box MI-59, Troy, Ohio

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New Products

• tracking and telemetering equipment

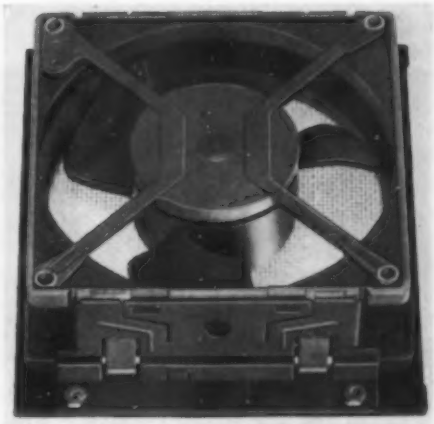
MUFFIN FAN COOLS ELECTRONIC EQUIPMENT

Rotron Mfg. Co. Inc.'s Muffin is a logical choice for a wide cross section of cooling projects. Typical applications would include: electronic "Black boxes"—transmitters, receivers, radar, etc.; microwave-link equipment; power supplies—rectifiers, converters, battery chargers, etc.; machine tools—electronic control enclosures, speed changers, clutches; light projectors—slide and filmstrip, contour projection; test equipment, instruments; industrial maintenance equipment.

Muffin Fan provides efficient forced air cooling for projects where cooling was hitherto prohibitive. It is an original aerodynamic design with a high air performance of 100 CFM while developing sufficient pressure for operation through a dust filter and tightly packed electronic equipment. Muffin Fan is available in three versions: Skeleton Fan; A whirling propeller with 4 mounting arms is what results from using the "guts" only of the Muffin Fan. It can be mounted as an air-stirring device among hot components or can be mounted in the equipment enclosure; Ventury Fan, and Grilled Fan.

The Muffin Fan features an inside-out motor with cantilevered bearings and with the air impeller integral with the rotor. This shaded-pole motor draws only 13 watts. No capacitor is required nor are there any commutators, slip rings or brushes which could shorten life or threaten reliability. No oiling or maintenance of any kind is necessary throughout the life of the fan. Due to the inside-out, cantilevered design the grease does not chemically deteriorate nor is there a need for a large grease reservoir.

A permanent, solid electrical connection is made to two solder terminals requiring just a few seconds time. The



solder terminals eliminate the possibility of lead wires being damaged in shipment, in handling or at the time of final installation—a common source of trouble in the case of conventional motors.

The Muffin Fan is designed for continuous duty operation with a life expectancy of 3 to 5 years when operated within the ambient temperature limits of 40°F to 110°F and within the nameplate electrical rating of 105 to 120 volt AC, 60 cycles. It requires no maintenance and is lubricated for the entire life of the fan.

Since the stator and all electrical parts, including the two input terminal lugs are molded into a watertight shell, the fan is not subject to humidity damage and is, in fact, submergence proof.

When installed in a cabinet with the grille assembly in place and measured in accordance with NAFM code, the noise level is only 42 db on the A scale or about 10 db lower than the average present day room air conditioner.

Fill in No. 142 on Subscriber Service Card.

Raytector-- Monitors Radar

Miller Associates' Raytector monitors any radar system. It notifies instantly—by audible or visual means or both—of the entrance of an object into a search zone selected by the radar operator and it maintains a constant check on the conditions of operation of the radar system and on its own operation. It relieves the radar operator and enhances the dependability of search operations. Features—high sensitivity is achieved by a new means of greatly enhancing signal-to-noise ratio; zone of search is adjustable from 2 to 30 miles out with an adjustable width of 2 to 30 miles for a maximum zone operation reach of 60 miles; on early warning it will operate out to radar's full reach; produces its own range rings for easy selection of search zone; notifies operator of radar failure; notifies operator of Raytector failure; gives constant "magic eye" indication of top echo-to-noise efficiency adjustment. Dimensions: l. 15½", h. 10½", d. 9-1/8"; weight: 30 lbs.; power: 115 volts, 60 cycles, 100 Va. Raytector produces a steady or repeated alarm signal; is easy to install, simple to operate and will not interfere with normal radar operation.

Fill in No. 143 on Subscriber Service Card.

New Duplexer Has High Reject Attenuation

D. S. Kennedy & Co. has introduced a duplexer having a reject attenuation greater than 100 db and designed for operation in the 755 to 985 mc band. It is especially suited to tropospheric scatter applications. The duplexer enables the same antenna to be used simultaneously for both transmitting and receiving. It is made of high strength aluminum alloy. The transmitter and receiver ports are equipped with transitions which are fitted with coaxial inputs.

Fill in No. 144 on Subscriber Service Card.

4-5 Digital Ohmmeters Give High Accuracy

Production of four and five-digit Digital Ohmmeters has been announced by Cubic Corp., San Diego electronics firm.

The new Ohmmeter, powered by Cubic Control Unit Model C-2, provides high accuracy on all ranges, Cubic says, plus or minus .01% and one digit for typical resistance measurements with the four-digit instrument for example.

Features include the incorporation of four input leads to avoid the effects of lead or contact resistance; an AC rejection filter which prevents induced

hum pickup; an open circuit test voltage of 10 volts maximum, which eliminates shock hazards and reduces resistor dissipation. Another feature, the addition of a resistor in the digital bridge, provides the instrument with the capability of calibration against standards up to 10% over full scale.

The firm says that only a small magnitude of current is drawn through the unknown resistance, because of unique bridge design and the incorporation of a highly sensitive null detector.

The Ohmmeter features Cubic's "controlled drive" stepping switches, with the switch turning off the drive circuit part way through the switch cycle, thus reducing the mechanical impact to a minimum and preventing the switches from being overdriven.

Fill in No. 145 on Subscriber Service Card.

New Multifarious Core Storage Unit Is Versatile

A series of revolutionary random access data storage units is now available from Telemeter Magnetics, Inc., manufacturer of data equipment. These memory-buffer units offer addressable random access, sequential access, or a combination of both as desired.

Designated SERIES RB random access buffer units, they feature:

Variable input output—Will accept pulses or levels of either polarity and input may be changed during operation. Output is equally versatile. Accepts and emits single-ended or double-ended information. Environment—Reliable operation between 0° and 55°C, unaffected by humidity. High speed—200 kc operating rate. Long term reliability—Solid state active elements conservative derating of components advanced design and manufacturing techniques. Wide range of capacities—from 256 to 1024 words of from 4 to 20 bits per word. Random or sequential access—Addressable storage registers for regenerative read/write or buffer operation in a sequential nonregenerative mode. Binary or decimal—Either binary or binary coded decimal addressing.

Fill in No. 146 on Subscriber Service Card.

Cathode Ray Tubes Have Ultra-High Resolution

The CBS-Hytron cathode ray tubes, primarily ultra-high resolution read out tubes or monitors, are designed for high precision display and photographic use. They are capable of resolving 2000 lines per inch. For a line scan of 4.5 inches in a 5 inch diameter tube, a total of 8000 lines can be achieved.

By the immersion electron optical design, the beam is controlled over its entire post-acceleration path. The half-deflection angle of 9.5° insures accurate deflection linearity with suitable yokes. Defocusing at the edge of the usable screen is less than 2.5%, but may be corrected to near zero by simple dynamic focusing. Some loss of resolution will occur at the extremes of deflection.

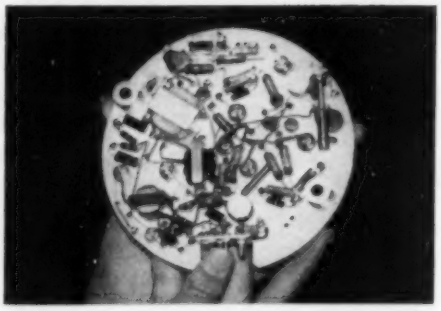
Tubes are available with P5 or P11 phosphore. These CR tubes are particularly suitable for photographic recording since the peak wavelengths of the phosphor fall within the blue region of the spectrum (4300A° and 4600A° respectively).

Tubes are also available in P16 phosphore. P16 has a shorter persistence of 1γs permitting use of these tubes in flying spot scanner work.

Fill in No. 147 on Subscriber Service Card.

Transmitter Is Designed for Space Satellites

An all-transistor 20 megacycle telemetering transmitter, designed for possible use in space satellites, and built by Philco Corp. for the U.S. Army is the first U.S. satellite transmitter to operate in the 20 mc band and it has the same type of modulation used by standard radio stations and amateur radio operators. It also has more power output and is more efficient than the transistorized transmitters used in present U.S. satellites.



Developed by Philco's Research division for the Army Ordnance Missile Command, the satellite transmitter weighs less than 10 ounces, is five inches in diameter and one inch high.

New Philco high frequency power transistors made it possible to build this telemetering transmitter which provides up to one watt of output power. This is in contrast to one-to-two hundredths of a watt of output from transistorized transmitters in present U.S. satellites.

These power transistors, developed especially for the 20 mc transmitter by Philco's Lansdale Tube division, are used instead of bulky vacuum tubes which require large batteries of short life span.

Another transistor advantage is that nearly one half of the power taken from a satellite's batteries, which operate the transmitter, is radiated as radio frequency energy. This is important since electrical power is limited and precious in an orbiting space satellite.

The Philco satellite transmitter is capable of operating at high efficiency in outer space within a temperature range of 5 to 187 degrees Fahrenheit. —It consists of three sections:

Oscillator—Uses one Philco high frequency power transistor in crystal controlled oscillator circuit.

Power Amplifier—Uses four Philco high frequency power transistors in parallel. Power gain of amplifier is 8 to 10 db.

Modulator—Uses one Philco transistor as audio amplifier-driver and two transistors in Class B push-pull. Power gain of the modulator is in excess of 50 db. Modulation is applied to the collector of the RF amplifier.

Performance—Power output is about 600 milliwatts unmodulated carrier; 830 milliwatts with full modulation (nominal operating conditions).

Fill in No. 148 on Subscriber Service Card.

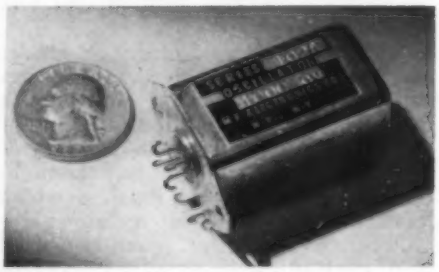
Oscillators for Missile Systems Are Pretuned

M F Electronics Co.'s series 101 and 102 fixed frequency RC pretuned sine wave oscillators are available in standard telemetering and decimal frequencies as stock items.

Oscillators are delivered from the factory set for the desired frequency; no external adjustments are required, thus reducing possibilities for misadjustment in final equipment. They become operative upon application of only one DC voltage (12 volts or 28 volts).

Resistance to mechanical shock and humidity is achieved by epoxy resin filling and the complete unit is hermetically sealed; oscillators may be operated under water. They are built in drawn metal cans of approximately 1½ cubic inches and may be conveniently mounted with two side flanges.

The 101 is distinguished from the 102 Series by difference in the frequency tolerance. The 101 has a total accuracy of ±5%, while the 102 has a total accuracy of ±2%. All oscillators are characterized by low distortion. Stability and functionality have been the two key factors in their development. Mechanical description: case-drawn steel, hot tin dipped; terminals-hermetic seal solder pin or hermetic noval connector; potting-epoxy resin; weight-35 grams nominal; storage temperature-minus 40 to plus 75°C.; operating temperature-minus 29 to plus 60°C.



The purpose of the packaged oscillator is to provide a reliable and stable frequency source, thereby allowing the systems designer to work with a black box with known performance.

Although rated for either 12 or 28 VDC, the 101 and 102 Series are operable with the wide range of supply voltages which might be expected during a typical battery life. With a nominal 12 volt source, the 101 or 102 should be chosen, while the 101A and 102A are intended for use with aircraft battery voltages of from 24 to 32 volts.

Oscillators will find their greatest use in aircraft, space vehicle and portable ground equipment. Typical applications include: telemetry, balloons, water vessels, missiles, guidance systems, timing circuits, bridge circuits, and test equipment.

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• tracking and telemetering equipment

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Progress Report No.

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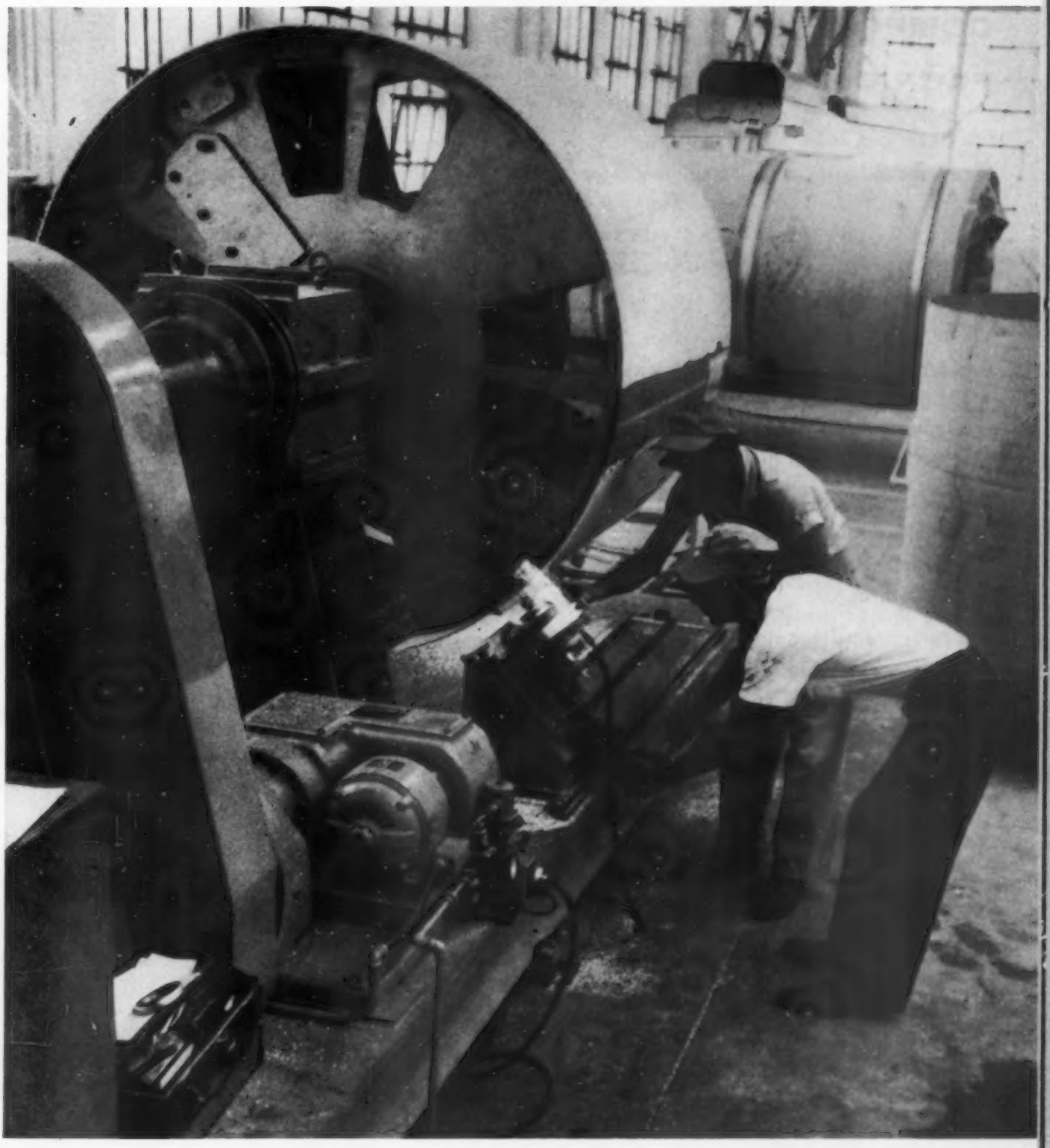
MATERIALS AND METALS

The chemicals, metals, and other materials from which missiles are made. This includes the processes which form these materials into the various parts of the missile.



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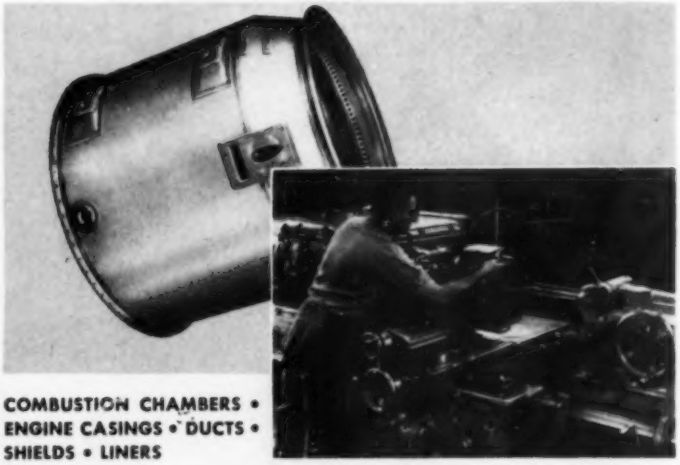

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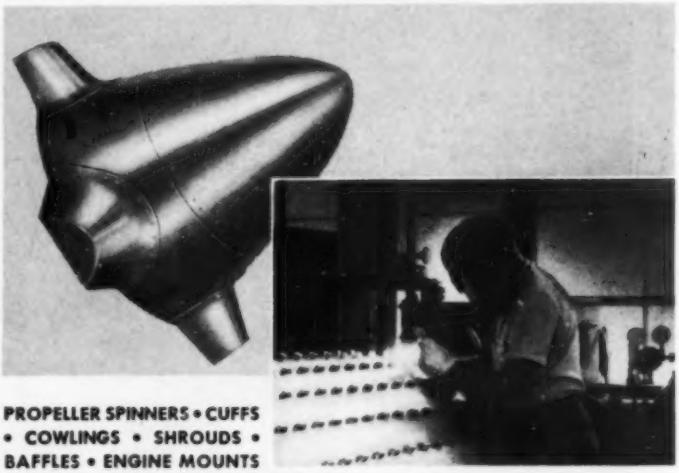

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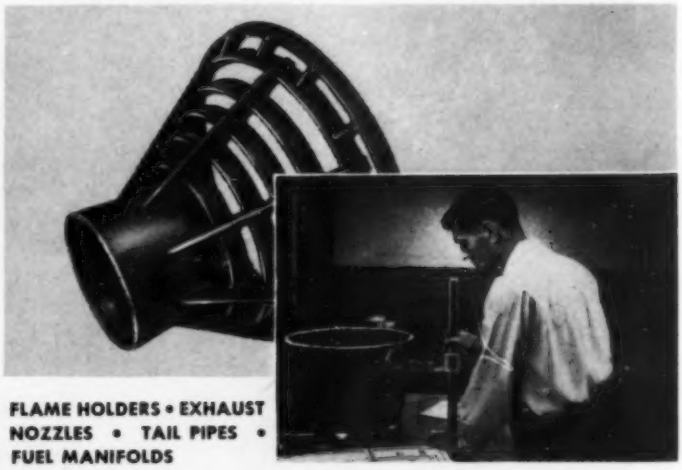

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Write for illustrated brochure describing Lavelle's services in detail.

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New Products

• materials and metals

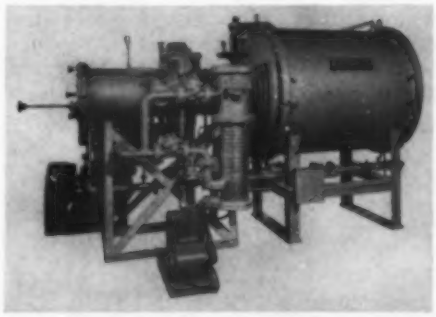
PRODUCTION FURNACE IS INTERNALLY HEATED

High Vacuum Equipment Corp. F-3000 Series furnaces are internally heated vacuum or controlled atmosphere furnaces capable of continuous operation at 3000F at a vacuum of 5×10^{-5}mm Hg or less, or for operation with an inert gas at 2500F. Four (4) models are available with any one of the following three (3) uniform hot zones: 4x8, 6x12, or 6x24 inches, denoting diameter and length, respectively.

The basic unit (Model 1) comprises a standard 660 or 1800 cfm packaged pumping system, with the cold wall vacuum furnace installed on top. Furnace is water jacketed and consists of a stainless steel inner shell and an outer stainless steel water jacket. The furnace elements are made of heavy molybdenum rod; the furnace heat shields are made of molybdenum and stainless steel. Automatic temperature control is achieved by means of a saturable core reactor, available with either an indicating or recording controller. A hearth is provided for supporting the work load. A door with vycor sight port is provided at one end for access to the working zone.

Necessary ports and fittings are included in the basic unit so that it can be converted in the future to any of the other three models.

Model 2 is identical to the basic unit with the addition of an externally mounted, water-cooled heat exchanger and blower to provide extremely fast cooling rates using inert atmosphere. This arrangement has the advantages of allowing the work load to remain stationary and permit fastening thermocouples directly to the work.



Model 3 is identical to the basic unit with the addition of a cooling zone and a water-cooled gate valve between furnace and cooling zone. Separate cooling zone permits vacuum and temperature to be maintained continually within the furnace since work may be loaded or unloaded using the cold zone as a 'vacuum lock' without breaking the furnace to atmosphere. This type system provides the fastest heating rates.

Model 4 is also identical to the basic unit except for the addition of a high vacuum gate valve and cooling zone with integral quench chamber. A variety of quench oils may be utilized to achieve desired heat treatment properties.

Models 3 and 4 are equipped with separate vacuum manifold and valve for independent evacuation of the chamber—thus, equalizing the vacuum between furnace and cold zone for semi-continuous operation. Both models contain a sliding seal in cooling chamber door to allow manipulation of a charging mechanism.

Fill in No. 150 on Subscriber Service Card.

New Power Rollers Feature Magnetic Brake

A new series of six power-operated rollers with cam actuated idler roll and magnetic brake to prevent overcoasting has been introduced by O'Neil-Irwin Mfg. Co., makers of Di-Acro Precision Metalworking Machines.

Called Di-Acro Power Roller, each model features a magnetic brake which provides a positive stop enabling the operator to work to a scribed or hair line without having to try and compensate for the rolls coasting. According to the company, direction of the rolls can be switched backward, forward or stopped at anytime by tripping a foot control.

Perfect circles of any diameter larger than two inches can be formed in sheet material in just two passes through the rolls due to the cam actuated idler roll. Bends can be located at any point in sheet material with straight sections on one or both sides. This also enables quantities of parts to be accurately duplicated as the idler roll is always returned by the lower cam to its preset position.

Di-Acro Power Rollers are available in models with 12", 18", 30", 36" and 42" forming widths. Each model has a power unit with enclosed housing mounted to the side frame of the machine and connected directly to the upper and lower rollers through a series of machine cut gears.

All forming rolls are ground and polished, the company said. Welded steel base extends the full length of the machine for permanent alignment of housing, bearings and rolls.

Standard equipment includes: calibrated rear roll indicators that enable the operator to adjust quickly the idler roll to a previous setting saving the time of rechecking the material for spring back; movable foot control, motor and all electrical equipment.

Fill in No. 151 on Subscriber Service Card.

Arc Welding Torch Is Compact, Lightweight

The Wilson Equipment Corp., of Paterson, N.J., has developed an inert gas shielded arc welding torch that is extremely compact and lightweight. This torch is aircooled, weighs 2¾ ozs. and handles currents from 5 to 150 amps. The overall head length of the angle torch (also available in straight model) is 1¾" with gas cup installed.

Durability is achieved by the use of laminated glass cloth and silicone resin to insulate the head. This material will neither char nor soften.

The lightweight cable remains flexible in all working temperatures, considerably reducing operator fatigue.

Fill in No. 152 on Subscriber Service Card.

Swayne, Robinson & Co. Improves Casting

Swayne, Robinson & Co. announces the development of a process for producing molds for castings by the new CO_2 molding method. This new method is particularly suited for castings designed for ultimate cost reduction through the elimination of machining.

Key to success in the process, according to the company, is proper sand mix. Considerable tests were made to determine proper balance of sand, binder and release agent to produce castings with exceptional fidelity of detail.

Gassing of the mold, the firm stated, is generally more efficient and economical than the shell method of baking since molds are cured in a cold state. Also, there is less chance of dimensional change due to uneven cool in sections of varying thickness as in shell mold baking.

Fill in No. 153 on Subscriber Service Card.

Subminiature Tool Makes Wire Wrapping Easy

The difficult problem of connecting wires to subminiature tube sockets and transistor sockets can be made easy with the subminiature wire wrapping tool manufactured by Winkler Laboratories. The tool makes secure electrical and mechanical connections.

The operation is extremely fast, very simple, and almost obvious. It takes three simple steps.

1. The end of the wire to be wrapped is inserted in the off-center hole of the tool.
2. The center hole of the tool is placed over the socket terminal to provide mechanical alignment.
3. The tool is spun with the fingers, wrapping the wire around the terminal.

During the wrapping, the wire is drawn out of the off-center hold. The rib on the end of the tool wraps the end of the wire neatly against the terminal; it is shaped to prevent snagging at the start of the wrapping operation. As the wrapping progresses, the tool is allowed to push itself away from the terminal. After wrapping, the connections may be soldered easily.

The difficulty of connecting wires to subminiature sockets has undoubtedly influenced other alternatives such as using printed circuit techniques and wiring tubes and transistors directly into the circuit. There is neither strength nor room to wrap size 22 awg (0.025 in. diameter) wire around terminals which are approximately 0.017 in. thick by 0.035 in. wide and spaced 0.096 in. center to center. It might be better to wrap the terminal around the wire. The practice of mounting components directly to subminiature socket terminals is similarly impractical; half watt resistors have size 20 (0.032 in. diameter) leads. For good joints, here are the important considerations.

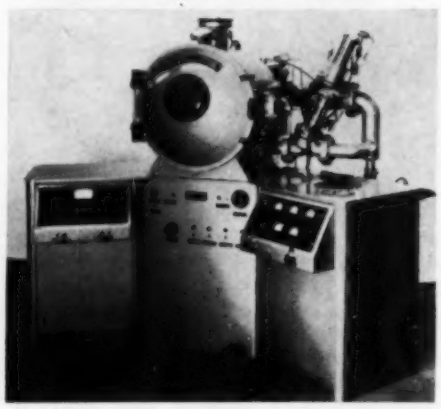
The conductor must be consistent in size with the terminal and its spacing. This can be accomplished if 28 awg wire is used. Under no circumstances should wire larger than size 26 be used.

Some acceptable means must be available to secure mechanically the wire to the terminal.

Fill in No. 154 on Subscriber Service Card.

Production Welder Uses High Velocity Electrons

High Vacuum Equipment Corp., manufacturer of vacuum processing equipment, has introduced a production welder utilizing the concentrated energy of a focused beam of high velocity electrons to weld metals.



These new welders, termed BEAMATRON will be used to weld those high temperature reactive metals and super-alloys important in today's nuclear, electronic and missile hardware. They are capable of welding metals ranging from aluminum to zirconium. By this process, it is possible to weld tungsten, tantalum or molybdenum to each other or to other metals, with results unobtainable by previously known methods.

The use of electrons in welding is possible only in a high vacuum, hence the union of electronic and vacuum techniques to produce a new welding process.

BEAMATRON equipment is effective in applications involving metals which react unfavorably with minute amounts of oxygen, nitrogen or hydrogen. It is a notable improvement over other welding processes such as the dry-box or shielded arc. Operation in high vacuum provides the most inert atmosphere—an atmosphere many times more pure than the best commercially available inert gases. Because most impurities trapped in metal become volatile in the high operating vacuum of the BEAMATRON, the entire weld zone, not just the surface, is purified. The net result is a weld joint with physical properties and life expectancies which cannot be obtained by other means. At the same time the unit cost of such items as nuclear fuel jackets and electronic parts is reduced by the elimination of costly shielding atmospheres and the reduction of rejects.

Fill in No. 155 on Subscriber Service Card.

Uniweld Process Offered for Space Vehicles

Menasco Manfacturing Co. has successfully applied its Uniweld process to extremely light weight spherical and cylindrical pressure vessels for space age vehicles.

Qualification testing to rigid customer specifications have been completed on several sizes of vessels constructed of both titanium alloy and high heat treat steels. Among the more unique of these is a cylindrical tank believed to be the largest yet made in titanium alloy. Approximately 98 inches in length and 14 inches in diameter, it contains liquid helium at 3,900 pounds per square inch pressure and yet weighs only 275 pounds.

While Menasco has produced over 6,000 missile pressure vessels, these new vessels represent the first application of Uniweld to tanks utilizing the latest in high strength, low weight materials. The consistent high strength of the Uniwelds, made under completely automatic machine control, also allows the company to offer a vessel with the maximum in reliability factor, which is so extremely important in the space travel industry.

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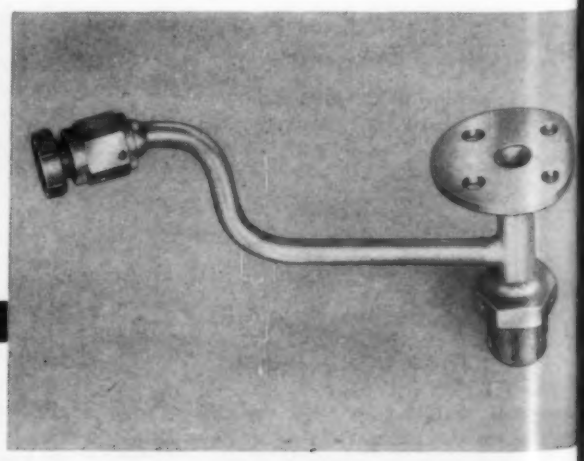
- with Hydrostatic, Radiographic, Temperature, Instrument, Flow, Hypotentiometer and Resistance Qualifying Tests — with U.S.A. and C.A.A. surveillance.



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MATERIALS AND METALS

Product Directory

Since Materials and Metals is a new category with this edition, a complete listing of products and manufacturers is listed within this section rather than in the MISSILE PRODUCT DIRECTORY, which appears in the last part of this book. As with the regular Product Directory, company names and addresses can be found in the MISSILE PURCHASING DIRECTORY which begins on page 111.

ALLOYS, HIGH PERMEABILITY

Accurate Specialties Co. Inc.
Alad Aluminum Ladder Corp.
All Boro Metal Products Co., Inc.
Allegheny Ludlum Steel Corp.
Alloys Unlimited Inc.
Aluminum Co. of America
American Hinge Corp.
American Silver Co.
Arnold Engrg. Co., The
***AVCO MFG. CORP., NASHVILLE DIV.**
Belmont Smelting & Refining Works, Inc.
Benson Mfg., Co., The
J. Bishop & Co., Platinum Works
Bond Metal Surplus Co.
Bram Metallurgical & Chemical Co.
Bridgeport Brass Co.
Byrne Doors Inc.
Carpenter Steel Co., The
Consolidated Wire & Associated Companies
Continental Metals, Inc.
Crucible Steel Co. of America
Delta Chemical Works, Inc.
Electric Steel Foundry Co.
Electronic Parts Mfg. Co., Inc.
Hamilton Watch Co.
Hamilton Watch Co.—Industrial Div.
Handy & Harman
International Nickel Co., The
Earle M. Jorgensen Co.
Kelsey-Hayes Co.
Kolcast Industries—Div. Thompson Ramo Wooldridge Inc.
Lucas Aircraft Supply Co.
Magnetic Shield Div. Perfection Mica Co.
Mercast Mfg. Corp.
Nesor Alloy Products Co.
Prereg Mfg. Inc.
Edw. Renneburg & Sons Co.
Joseph T. Ryerson & Son, Inc.
Timken Roller Bearing Co., The
U. S. Steel Supply Div., United States Steel Corp.
Universal-Cyclops Steel Corp.
Vascoloy-Ramet Corp.
Waimet Alloys Co., Div. Consolidated Foundries & Mfg. Corp.
Waukesha Foundry Co.
Western Gold & Platinum Co.
Westinghouse Electric Corp.
Westinghouse Electric Corp., Metals Plant

ALUMINUM

Accurate Specialties Co. Inc.
Adam Metal Supply Inc.
Advance Carbon & Electric Mfg. Co.
Alloys Unlimited Inc.
American Brazing Alloys Co.
American Nickel Alloy Mfg. Corp.
American Silver Co.
American Smelting & Refining Co.
Anchor Metal Co. Inc.
***AVCO MFG. CORP., NASHVILLE DIV.**
Avion Foundry Corp.
Baker Steel & Tube Co.
Belmont Smelting & Refining Works, Inc.
Bridgeport Brass Co.
Chase Brass & Copper Co., Inc.
Continental Metals, Inc.
Copperweld Steel Co., Wire & Cable Div.
Dalweld Co. Inc.
Delta Chemical Works, Inc.
Devcon Corp.
Doehler-Jarvis Div., National Lead Co.
Empire State Aluminum Corp.
Fromson Orban Co., Inc.
Hamilton Watch Co.-Industrial Div.
Harvey Aluminum
Kaiser Aluminum & Chemical Sales, Inc.
Kolcast Industries—Div.— Thompson Ramo Wooldridge Inc.
Light Metals, Inc.
Lucas Aircraft Supply Co.
***LYCOMING DIV., AVCO MFG. CORP.**
Matheson Co., Inc., The
Mueller Brass Co.
National Metallurgical Corp.
Nesor Alloy Products Co.
Ohio Precision Castings, Inc.
F. H. Paul & Stein Brothers, Inc.
Peerless Machine Co.
Precision Castings, Inc.
Precision Shapes, Inc.
Precision Tube Co., Inc.
Reynolds Metals Co.
Rodney Metals Inc.
Scovill Mfg. Co.
Swayne, Robinson & Co.
United Mineral & Chemical Corp.
Vanadium Corp. of America
Wellman Bronze & Aluminum Co.
Wisconsin Aluminum Foundry Co., Inc.

ANTIMONY

Accurate Specialties Co. Inc.
Alloys Unlimited Inc.
American Nickel Alloy Mfg. Corp.
American Smelting & Refining Co.
Barium & Chemicals, Inc.
Bow Solder Products Co., Inc.
Bram Metallurgical & Chemical Co.
Division Lead Co.
Lamtex Industries, Inc.
Matheson Co., Inc., The
National Lead Co.
Nesor Alloy Products Co.
Ohio Semiconductors, Inc.
Raybestos-Manhattan, Inc.
United Mineral & Chemical Corp.

ASBESTOS

Abesto Corp.
Allied Plastics Supply Corp.
American Smelting & Refining Co.
Armstrong Cork Co.
Auburn Mfg. Co., The
Eagle-Picher Co., The
Electrical Insulation Co., Inc.
Gatke Corp.
General Gasket Inc.
Johns-Manville
Johns-Manville Sales Corp.
Matheson Co., Inc., The
Raybestos-Manhattan, Inc., Fla.
Union Asbestos & Rubber Co.
United States Rubber Co.
Zippertubing Co., The

ASPHALT

Ashland Oil & Refining Co.
Belmont Smelting & Refining Works, Inc.
Delta Chemical Works, Inc.
Esso Standard Oil Co.
Matheson Co., Inc., The
Zophar Mills Inc.

BARIUM

Alloys Unlimited Inc.
Barium & Chemicals, Inc.
Belmont Smelting & Refining Works, Inc.
Bram Metallurgical & Chemical Co.
Consolidated Wire & Associated Companies
Delta Chemical Works, Inc.
Matheson Co., Inc., The
Mercast Mfg. Corp.
United Mineral & Chemical Corp.

BERYLLIUM

Accurate Specialties Co. Inc.
American Beryllium Co.
Belmont Smelting & Refining Works, Inc.
Beryllium Corp., The
Bios Labs., Inc.
Bram Metallurgical & Chemical Co.
Bridgeport Brass Co.
Brush Beryllium Co., The
Damascus Tube Co.
***LYCOMING DIV., AVCO MFG. CORP**
P. R. Mallory & Co. Inc.
Metals & Controls Corp., General Plate Div.
Miniature Precision Bearings, Inc.
Nesor Alloy Products Co.
Ohio Precision Castings, Inc.

BORON

Accurate Specialties Co. Inc.
Alloys Unlimited Inc.
***AMERICAN POTASH & CHEMICAL CORP.**
Belmont Smelting & Refining Works, Inc.
Bond Metal Surplus Co.
Bram Metallurgical & Chemical Co.
Callery Chemical Co.
Dalweld Co. Inc.
George K. Garrett Co., Inc.
Lucas Aircraft Supply Co.
Matheson Co., Inc., The
Norton Co., New Products Dept.
Shenango Furnace Co., The, Centrifugally Cast Products Div.
Waukesha Foundry Co.

BRASS

Advance Carbon & Electric Mfg. Co.
American Brake Shoe Co.
American Brass Co., The
American Hinge Corp.
American Silver Co.
American Smelting & Refining Co.
Bearium Metals Corp.
Belmont Smelting & Refining Works, Inc.
Bond Metal Surplus Co.
Bram Metallurgical & Chemical Co.
Bridgeport Brass Co.
Bristol Brass Corp., The
Chase Brass & Copper Co., Inc.
Dalweld Co. Inc.
Damascus Tube Co.
Doehler-Jarvis Div., National Lead Co.
Fromson Orban Co., Inc.
George K. Garrett Co., Inc.
Hamilton Watch Co.—Industrial Div.
Harvey Aluminum
Mercast Mfg. Corp.
Mueller Brass Co.
Nesor Alloy Products Co.
Ohio Precision Castings, Inc.
Peerless Machine Co.
Phelps Dodge Copper Products Corp.
Precision Shapes, Inc.
Scovill Mfg. Co.
Shenango Furnace Co., The, Centrifugally Cast Products Div.
Somers Brass Co. Inc.
Titan Metal Mfg. Co.
Waukesha Foundry Co.
Wisconsin Aluminum Foundry Co., Inc.

BRONZE

American Brake Shoe Co.
American Brass Co., The
American Hinge Corp.
American Silver Co.
American Smelting & Refining Co.
Ampco Metal, Inc.
Bearium Metals Corp.
Belmont Smelting & Refining Works, Inc.
Bond Metal Surplus Co.
Bram Metallurgical & Chemical Co.
Bridgeport Brass Co.
Bristol Brass Corp., The
Chase Brass & Copper Co., Inc.
Consolidated Wire & Associated Companies
C. Lee Cook Co., Airtomic Products Div.
Dalweld Co. Inc.
Damascus Tube Co.
George K. Garrett Co., Inc.
Hamilton Watch Co.—Industrial Div.
Lucas Aircraft Supply Co.
Mercast Mfg. Corp.
Mueller Brass Co.
Nesor Alloy Products Co.
Ohio Precision Castings, Inc.
Peerless Machine Co.
Phelps Dodge Copper Products Corp.
Precision Shapes, Inc.
Randall Graphite Bearings, Inc.
Saginaw Bearing Co.
Scovill Mfg. Co.
Somers Brass Co. Inc.
Titan Metal Mfg. Co.
Wisconsin Aluminum Foundry Co., Inc.

BRONZE, PHOSPHOR

American Brass Co., The
American Brazing Alloys Co.
American Silver Co.
Ampco Metal, Inc.
Belmont Smelting & Refining Works, Inc.
Bios Labs., Inc.
Bram Metallurgical & Chemical Co.
Bridgeport Brass Co.
Chase Brass & Copper Co., Inc.
Damascus Tube Co.
George K. Garrett Co., Inc.
Hamilton Watch Co.
Hamilton Watch Co.—Industrial Div.
Lucas Aircraft Supply Co.
Mueller Brass Co.
Nesor Alloy Products Co.
Precision Shapes, Inc.
Randall Graphite Bearings, Inc.
Saginaw Bearing Co.
Scovill Mfg. Co.
Somers Brass Co. Inc.
Wisconsin Aluminum Foundry Co., Inc.

CADMIUM

Accurate Specialties Co. Inc.
Allied Research Products, Inc.
Alloys Unlimited Inc.
American Silver Co.
American Smelting & Refining Co.
Anchor Metal Co. Inc.
Belmont Smelting & Refining Works, Inc.
Bios Labs., Inc.
Bram Metallurgical & Chemical Co.
Bridgeport Brass Co.
Division Lead Co.

Eagle-Picher Co., The
Hamilton Watch Co.—Industrial Div.
Lucas Aircraft Supply Co.
P. R. Mallory & Co. Inc.
Matheson Co., Inc., The
Nesor Alloy Products Co.
United Mineral & Chemical Corp.

CALCIUM

Alloys Unlimited Inc.
Beryllium Corp., The
Bios Labs., Inc.
Bram Metallurgical & Chemical Co.
Matheson Co., Inc., The
Metal Hydrides Inc.
Republic Lens Co. Inc.
Union Carbide Metals Co., Div.—Union Carbide Corp.

CARBIDES

Allegheny Ludlum Steel Corp.
Bram Metallurgical & Chemical Co.
Carbone Corp., The
Carborundum Co., Refractories Div.
Firth Sterling Inc.
General Electric Co., Metallurgical Products Dept.
Kennametal Inc.
Linde Co., Div.—Union Carbide
Lucas Aircraft Supply Co.
National Lead Co.
Norton Co.
Norton Co., New Products Dept.
Union Carbide Metals Co., Div.—Union Carbide Corp.
United Mineral & Chemical Corp.
Vascoloy-Ramet Corp.
Wayne Pump Co., The, Div.—Symington Wayne Corp.

CARBON

American Nickel Alloy Mfg. Corp.
Barnebey-Cheney Co.
Carbone Corp., The
Delta Chemical Works, Inc.
Great Lakes Carbon Corp.—Electrode Div.
Helwig Carbon Products, Inc.
Kolcast Industries—Div. Thompson Ramo Wooldridge Inc.
Louthan Mfg. Co., The, Div.—Ferro Corp.
Morganite, Inc.
Ohio Carbon Co., The
Peerless Machine Co.
Joseph T. Ryerson & Son, Inc.
St. Marys Carbon Co.
Stackpole Carbon Co.
Superior Carbon Products, Inc.
United Carbon Products Co.

CERAMICS

Aerojet-General Corp.
American Lava Corp.
American Refractories & Crucible Corp.
Auburn Spark Plug Co., Inc.
***BENDIX PRODUCTS DIV., BENDIX AVIATION CORP.**
Beryllium Corp., The
Bios Labs., Inc.
Carbone Corp., The
Carborundum Co., Latrobe Plant, Refractories Div.
Carborundum Co., Refractories Div.
Centralab, Div.—Globe-Union
Cooper Development Corp., Sub.—Marquardt Aircraft Co.
Corning Glass Works
Curtiss-Wright Corp., Research Div.
Curtiss-Wright Corp., Santa Barbara Div.
Diamonite Products Mfg. Co.
Duramic Products Inc.
Dyna-Therm Chemical Corp.
Electric Auto-Lite Co., The
Electrical Refractories Co., The
Emerson & Cuming, Inc.
General Electric Co., Insulator Dept.
General Electric Co., Metallurgical Products Dept.
Gladding, McBean & Co.
Haveg Industries, Inc.
Haynes Stellite Co., Div.—Union Carbide Corp.
International Resistance Co.
Isolantite Mfg. Corp.
Linde Co., Div.—Union Carbide
Maryland Lava Co.
Metallizing Co. of Los Angeles Inc.
Minneapolis-Honeywell Regulator Co., Ordnance Div.
Minnesota Mining & Mfg. Co.
Mitronics Inc.
Motorola Inc., Military Electronics Div.
National Beryllia Corp.
National Lead Co.
Norton Co.
Norton Co., New Products Dept.
Pittsburgh Corning Corp.
Radar Design Corp.
Rogers Corp.
Thermal Refractories Corp.
Topper Mfg. Co., Inc.
Trionics Corp.
United Mineral & Chemical Corp.
Vascoloy-Ramet Corp.
Western Gold & Platinum Co.
Zirconium Corp. of America

CESIUM

Accurate Specialties Co. Inc.
Alloys Unlimited Inc.
***AMERICAN POTASH & CHEMICAL CORP.**
Belmont Smelting & Refining Works, Inc.
Bios Labs., Inc.
Bram Metallurgical & Chemical Co.
Matheson Co., Inc., The
United Mineral & Chemical Corp.

CHEMICALS, DEHUMIDIFYING

Aluminum Co. of America
Barium & Chemicals, Inc.
Belmont Smelting & Refining Works, Inc.
Bios Labs., Inc.
Borden Chemical Co.
Dow Chemical Co., The
Drieaire, Inc.
Fisher Scientific Co.
Foote Mineral Co.
Matheson Co., Inc., The
Merix Chemical Co.
Metal Hydrides Inc.
United Mineral & Chemical Corp.

CHEMICALS, ELECTROPLATING

***ALLIED CHEMICAL CORP., GENERAL CHEMICAL DIV.**
Allied Research Products, Inc.
American Smelting & Refining Co.
J. T. Baker Chemical Co.
Barium & Chemicals, Inc.
Belmont Smelting & Refining Works, Inc.
J. Bishop & Co., Platinum Works
Delta Chemical Works, Inc.
E. I. Du Pont de Nemours & Co. Inc.
Engelhard Industries, Inc.
Penetone Co., The
Sel-Rex Corp.
Shell Chemical Corp., Industrial Chemicals Div.
Wildberg Bros. Smelting & Refining Co.
Wyandotte Chemicals Corp.

CHROMIUM

Alloys Unlimited Inc.
American Nickel Alloy Mfg. Corp.
Bram Metallurgical & Chemical Co.
Hoskins Mfg. Co.
Kolcast Industries—Div. Thompson Ramo Wooldridge Inc.
Matheson Co., Inc., The
Joseph T. Ryerson & Son, Inc.
Union Carbide Metals Co., Div.—Union Carbide Corp.
United Mineral & Chemical Corp.
Vanadium Corp. of America

CLOTH, GLASS

Aerojet-General Corp.
Allied Plastics Supply Corp.
American Machine & Foundry Co., Government Products Group
Auburn Mfg. Co., The
Aviation Textile Associates
Bellofram Corp.
Birma Mfg. Co. Inc.
Coast Mfg. & Supply Co.
Continental Can Co., Inc.
C. R. Daniels, Inc.
Duracote Corp.
Eagle-Picher Co., The
Electro Technical Products Div. Sun Chemical Corp.
Emmco Plastic Fabricators—Div.—E. M. McCarthy Machine Co.
Haveg Industries, Inc.
Johns-Manville
Minnesota Mining & Mfg. Co.
Reinhold Engrg. & Plastics Co.
St. Regis Paper Co., Panelyte Div.

CLOTH, PLASTIC

Aerojet-General Corp.
Allied Plastics Supply Corp.
Auburn Mfg. Co., The
Aviation Textile Associates
Blossom Mfg. Co. Inc.
Cordo Chemical Corp.
C. R. Daniels, Inc.
Duracote Corp.
Electrical Insulation Co., Inc.
Emmco Plastic Fabricators—Div.—E. M. McCarthy Machine Co.
General Plastics Corp. of New Jersey
Johns-Manville
Kressilk Products, Inc.
Minnesota Mining & Mfg. Co.
New York Rubber Corp.
Plastic Film Co., Inc.
St. Regis Paper Co., Panelyte Div.
Schlegel Mfg. Co.
United States Rubber Co.
Zippertubing Co., The

CLOTH, RUBBERIZED

Asbesto Corp.
Auburn Mfg. Co., The
Aviation Textile Associates
J. Bishop & Co., Platinum Works
Cordo Chemical Corp.
C. R. Daniels, Inc.
E. I. Du Pont de Nemours & Co. Inc.
Duracote Corp.
Emmco Plastic Fabricators—Div.—E. M. McCarthy Machine Co.
Gatke Corp.
Goodyear Tire & Rubber Co., The, Aviation Products Div.
Hewitt-Robbins, Inc.
Johns-Manville
Minnesota Mining & Mfg. Co.
Permacel
Raybestos-Manhattan, Inc., Pa.
Rez-Coat of California
Schlegel Mfg. Co.
United States Rubber Co.

CLOTHS, WOVEN WIRE

Aviation Textile Associates
Birma Mfg. Co. Inc.
Buffalo Wire Works Co., Inc.
Chase Brass & Copper Co., Inc.
Flock Process Co., Inc.
Goodyear Tire & Rubber Co., The, Aviation Products Div.
Hewitt-Robbins, Inc.
International Nickel Co., The
Kressilk Products, Inc.
Lofstrand Co., The
National-Standard Co.
Republic Steel Corp.
Schlegel Mfg. Co.

COATINGS

a. Conductive-tube interior
b. Finishing
c. High temperature
d. Printed circuit
e. Protective
f. Salt spray resistance
g. Special purpose

Acheson Colloids Co., Div.—Acheson Industries, Inc., **a, c, d.**
Aerojet-General Corp., **c, g.**
Allied Research Products, Inc., **b, e, f.**
American Latex Products Corp., **c, e, f, g.**
American Optical Co., Instrument Div., **g.**
American Rocket Co., **b, e, g.**
American Solder & Flux Co., **e, f.**
Arco Co., The, **b, e.**
Aries Laboratories, Inc., **c thru g.**
Ashland Oil & Refining Co., **e, f, g.**
Atlas Precision Products, Co., **b, e.**
Bart Mfg. Corp., **e, f, g.**
George Basch Co., The, **e, g.**
Belmont Smelting & Refining Works, Inc., **g.**
***BENDIX PRODUCTS DIV., BENDIX AVIATION CORP., c, e, f, g.**
Carl H. Biggs Co., **b thru g.**
J. Bishop & Co., Platinum Works, **h.**
Borden Chemical Co., **a, b, c, e, f, g.**
Boston Insulated Wire & Cable Co., **c, e.**
Carboline Co., **e, f, g.**
Carbone Corp., The, **c.**
Carborundum Co., Refractories Div., **c, g.**
Chemplast, Inc., **c, g.**
Columbia Technical Corp., **b thru g.**
Consolidated Electrodynamics Corp., **c.**
Cordo Chemical Corp., **e, f, g.**
Curtiss-Wright Corp., Research Div., **c.**
Curtiss-Wright Corp., Santa Barbara Div., **c, g.**
Delta Chemical Works, Inc., **a thru g.**
Devcon Corp., **e, f, g.**
Division Lead Co., **d.**
***DOW CORNING CORP., c, e, g.**
E. I. Du Pont de Nemours & Co. Inc., **a thru g.**
Duracote Corp., **c, e, g.**
Duralith Corp., **e, f, g.**
Dyna-Therm Chemical Corp., **c, f, g.**
Eagle-Picher Co., The, **b, c, e.**
Eastman Kodak Co., **d.**
Eaton Electronics Corp., **d.**
Ed-Berl Products, Inc., **c, e, f.**
Electro Technical Products Div. Sun Chemical Corp., **c.**
Emerson & Cuming, Inc., **a thru g.**
Emmco Plastic Fabricators—Div.—E. M. McCarthy Machine Co., **b, e, g.**
Engelhard Industries, Inc., **d, e.**
Esso Standard Oil Co., **e, f, g.**
Fidelity Chemical Products Corp., **d, f, g.**
Fluorocarbon Co., The, **g.**
Fluorulon Labs., Inc., **f, g.**
Furane Plastics, Inc., **c thru f.**
General Plastics Corp. of New Jersey, **c, g.**
B. F. Goodrich Industrial Products Co., **d.**
Goodyear Tire & Rubber Co., The, Aviation Products Div., **e, f.**
Grant Chemical Co., Inc., **c, e, f, g.**
Green Rectifier Co., **g.**
Gulton Industries, Inc., **c, e.**
Haveg Industries, Inc., **c.**
R. M. Hollingshead Corp., **e.**
E. F. Houghton & Co., **e, f.**
Houghton Laboratories, Inc., **d, e, g.**
Huntington Rubber Mills, **e.**
Industrial Metal Protectives, Inc., **e.**
Integrated Mica Corp., **c.**
International Nickel Co., The, **f, g.**
Johns-Manville, **c, e, g.**
Kano Labs, **b, e.**
Kinney Mfg. Div., The New York Air Brake Co., **c, g.**
Kressilk Products, Inc., **d.**
Krylon, Inc., **a, b, d, e, f.**
Lebec Chemical Corp., **c, e, f, g.**
Liberty Mirror Div., Libbey-Owens-Ford Glass Co., **g.**
Linde Co., Div.—Union Carbide, **b, c, e, g.**
London Chemical Co., Inc., **c thru g.**
Maas & Waldstein Co., **a, b, d thru g.**
Marblette Corp., The, **d, e.**
Marquardt Aircraft Co., **c.**
Merix Chemical Co., **a, b, e, g.**
Metalectro Lab., **a, b, c, e, f, g.**
Metallizing Co. of Los Angeles Inc., **c thru g.**
Metaplast Co. Inc.
Micro-Circuits Co., **a, e, f, g.**
Midland Industrial Finishes Co., **a thru f.**
Minnesota Mining & Mfg. Co., **d, e, g.**
Minnesota Mining & Mfg. Co.—Adhesives, Coating & Sealers Div., **e, f, g.**
Minnesota Rubber Co., **e.**
Mitronics Inc., **a, c.**
Normco Resins & Coatings Co., **c, e.**
National Beryllia Corp., **c.**
National Research Corp., **c, f.**
Nesor Alloy Products Co., **g.**
New England Tape Co., Div.-United-Carr Fastener Corp., **a, e, g.**
Norton Co., **c, e, g.**
Norton Co., New Products Dept., **c, e, g.**
Optical Coating Lab., Inc., **g.**
Penetone Co., The, **g.**
Pennsalt Chemicals Corp., **e, f.**
Permacel, **c thru f.**
Joseph E. Podgor Co., Inc., **a, d.**
Polymer Corp., The, **b, e, f, g.**
Products Research Co., **c thru g.**
Protex-A-Cote, Inc., **b, c, e, f, g.**

Raybestos-Manhattan, Inc., **e.**
Raybestos-Manhattan, Inc., Pa., **e.**
Reinhold Engrg. & Plastics Co., **c, e, g.**
Republic Lens Co. Inc., **e, g.**
Saureisen Cements Co., **c, e.**
Sel-Rex Corp., **d, g.**
Servwell Products Co., **g.**
W. S. Shamban & Co., **d.**
Sierracin Corp., The, **g.**
Silicones Div.-Union Carbide Corp., **c, e, f.**
Skycraft Tool Engrg. Co., **f.**
Thiokol Chemical Corp., **e.**
Thomas Electronics, Inc., **a, b.**
Arthur Tickle Engrg. Works, Inc., **c, e, g.**
Topper Mfg. Co., Inc., **a, c thru g.**
Trionics Corp., **c thru g.**
Turco Products, Inc., **e, f, g.**
United States Chemical Milling Corp., **d.**
Vitro Labs., **a, b, c, e, g.**
Vorac Co., The, **b, c, e, f, g.**
Western Coating Co., **e, g.**
Westline Products Div.—Western Lithograph Co., **f.**
X-Pando Corp., **e, f, g.**
Zenith Optical Laboratory, **g.**
Zippertubing Co., The, **a, c, e, f, g.**
Zirconium Corp. of America, **c.**
Zophar Mills Inc., **d thru g.**

COBALT

Alloys Unlimited Inc.
American Nickel Alloy Mfg. Corp.
Belmont Smelting & Refining Works, Inc.
Bram Metallurgical & Chemical Co.
Delta Chemical Works, Inc.
Foote Mineral Co.
Haynes Stellite Co., Div.—Union Carbide Corp.
International Nickel Co., The
Kolcast Industries—Div. Thompson Ramo Wooldridge Inc.
Matheson Co., Inc., The
Mercast Mfg. Corp.
National Lead Co.
Waimet Alloys Co., Div. Consolidated Foundries & Mfg. Corp.

COLUMBIUM METALS

American Silver Co.
Belmont Smelting & Refining Works, Inc.
Bram Metallurgical & Chemical Co.
Bridgeport Brass Co.
Damascus Tube Co.
Delta Chemical Works, Inc.
Hamilton Watch Co.
Hamilton Watch Co.—Industrial Div.
Kennametal Inc.
Kolcast Industries—Div.—Thompson Ramo Wooldridge Inc.
***MALLORY-SHARON METALS CORP.**
Metals & Controls Corp., General Plate Div.
National Research Corp.
Somers Brass Co. Inc.
Tapco Group, Thompson Ramo Wooldridge Inc.
Union Carbide Metals Co., Div.—Union Carbide Corp.
Universal-Cyclops Steel Corp.
Vanadium Corp. of America
Waimet Alloys Co., Div. Consolidated Foundries & Mfg. Corp.
Westinghouse Electric Corp., Metals Plant

COMPOUNDS

a. Calking & sealing
b. Electrical insulating & sealing
c. Encapsulating
d. Impregnating
e. Mica
f. Phenolic molding
g. Potting
h. Waterproofing

Acheson Colloids Co., Div.—Acheson Industries, Inc.
Adhesive Engrg., Div.—Hiller Aircraft Corp. **b, c, g.**
Alloys Unlimited Inc.
American Latex Products Corp., **a, c, d, g, h.**
Anchor Metal Co. Inc., **a.**
Arco Co., The, **a, h.**
Aries Laboratories, Inc., **b, c, d, f.**
Armstrong Cork Co., **a, b, g, h.**
Bacon Industries, Inc., **c, d, g.**
George Basch Co., The, **d.**
Belmont Smelting & Refining Works, Inc., **g.**
Carl H. Biggs Co., **a thru e, g, h.**
Borden Chemical Co., **a thru d, f, g, h.**
Carboline Co., **a, h.**
Carborundum Co., Refractories Div., **a, b, c, g.**
Chicago-Allis Mfg. Corp., **d.**
Ciba Products Corp., **c, g.**
Coast Mfg. & Supply Co., **f.**
Cooper Industries, Inc., **a.**
Curtiss-Wright Corp., Research Div., **c.**
Dayton Rubber Co., The, **a, b, c, g, h.**
Delta Chemical Works, Inc., **a thru g.**
Devcon Corp., **a, b, c, g, h.**
***DOW CORNING CORP., a thru d, g, h.**
E. I. Du Pont de Nemours & Co. Inc., **a, b, c, g, h.**
Duracote Corp., **d, h.**
Durez Plastics Div.—Hooker Chemical Corp., **f.**
Dyna-Therm Chemical Corp., **c, d.**
Eagle-Picher Co., The, **h.**
Eco Engrg. Co., **a.**
Ed-Berl Products, Inc., **h.**
Emerson & Cuming, Inc., **a thru d, f, g.**
Fluorocarbon Co., The, **b.**
Foote Mineral Co., **c, e, g.**
Form-It Products, Inc., **f, h.**
Furane Plastics, Inc., **a thru d, f, g, h.**
Grant Chemical Co., Inc., **a thru d, f, g.**
Havog Industries, Inc., **b thru h.**
Houghton Laboratories, Inc., **b, c, d, g.**
Johns-Manville, **a, b, d, h.**
Lamtex Industries, Inc., **a, b, c, g, h.**
Lebac Chemical Corp., **d, f, g, h.**
Leffingwell Chemical Co., **g, h.**
Magnetic Shield Div. Perfection Mica Co., **e.**
Marblette Corp., The, **a, b, c, d, g.**
Micacraft Products Inc., **e.**
Midland Industrial Finishes Co., **g.**
Minnesota Mining & Mfg. Co., **a thru h.**
Minnesota Mining & Mfg. Co.—Adhesives, Coating & Sealers Div. **a, b, g, h.**
Narmco Resins & Coatings Co.
National Engrg. Products, Inc., **a, b, c, g.**
New England Tape Co., Div.—United-Carr Fastener Corp., **b, d, g, h.**
Nopco Chemical Co., **c, g.**
Pennsalt Chemicals Corp., **g.**
Permacel, **a thru d, g, h.**
Permatex Co., Inc., **a.**
Products Research Co., **a, b, c, g, h.**
Protex-A-Cote, Inc., **a thru d, g, h.**
Raybestos-Manhattan, Inc., Fa., **a, f, g, h.**
***REDEL INC., a.**
Reichhold Chemicals, Inc., **f.**
Reinhold Engrg. & Plastics Co., **a, c, d, f, g.**
Rez-Coat of California, **f.**
Saureisen Cements Co., **a, b, c, f.**
Seal-Peel, Inc., **a, g, h.**
Servwell Products Co., **d.**
Shell Chemical Corp., Industrial Chemicals Div., **c, d, g.**
Silicones Div.—Union Carbide Corp., **a thru h.**
Smooth-On Mfg. Co., **a, b, c, g, h.**
Special Projects Lab., Food Machinery & Chemical Corp., **g.**
Thiokol Chemical Corp., **a, b, h.**
Topper Mfg. Co., Inc., **a thru d, g, h.**
Trio Chemical Works, Inc., **h.**
Trionics Corp., **g, h.**
United States Rubber Co., **c, d.**
Westinghouse Electric Corp., **b.**
X-Pando Corp., **a, c, h.**
Zophar Mills Inc., **a thru d, g, h.**

CONES, METAL

American Brake Shoe Co.
Belmont Smelting & Refining Works, Inc.
Brooks & Perkins, Inc.
Consolidated Wire & Associated Companies
Delta Chemical Works, Inc.
Diversey Engrg. Co.
Dresser Industries, Inc.
Farwell Metal Fabricating
General Communication Co.
General Electric Co., Missile & Space Vehicle Dept.
Kaiser Aircraft & Electronics, Div.—Kaiser Industries Corp.
Kaiser Metal Products, Inc.—Fleetwings Div.
C. B. Kaupp & Sons, Inc.
Kelsey-Hayes Co.
Kling Metal Spinning & Stamping Co.
Lukens Steel Co.
***LYCOMING DIV., AVCO MFG. CORP.**
Metal Textile Corp., Electronics Div.
Nippert Electric Products Co., The
Peerless Machine Co.
Superior Spinning & Stamping Co.
United States Chemical Milling Corp.

COPPER

Acme Mfg. & Gasket Co.
Allied Research Products, Inc.
American Brass Co., The
American Brazing Alloys Co.
American Hinge Corp.
American Nickel Alloy Mfg. Corp.
American Silver Co.
Anchor Metal Co. Inc.
J. T. Baker Chemical Co.
Belmont Smelting & Refining Works, Inc.
Bond Metal Surplus Co.
Bram Metallurgical & Chemical Co.
Bridgeport Brass Co.
Chase Brass & Copper Co., Inc.
Copperweld Steel Co., Wire & Cable Div.
Deringer Metallurgical Corp.
Fromson Orban Co., Inc.
George K. Garrett Co., Inc.
Hamilton Watch Co.—Industrial Div.
Kensico Tube Co. Inc.
Matheson Co., Inc., The
Mueller Brass Co.
Phelps Dodge Copper Products Corp.
Precision Tube Co., Inc.
Sel-Rex Corp.
Standard Metals Corp.
Superior Carbon Products, Inc.

CORK

Acme Mfg. & Gasket Co.
Armstrong Cork Co.
Auburn Mfg. Co., The
General Gasket Inc.

FABRIC

Aero Leather Products Co.
Bemis Brothers Bag Co.
Coast Mfg. & Supply Co.
Cooper Industries, Inc.
C. R. Daniels, Inc.
Duracote Corp.
Johns-Manville
Schlegel Mfg. Co.
W. S. Shamban & Co.
United States Rubber Co.

FELT & FELT PARTS

Acme Mfg. & Gasket Co.
Aero Leather Products Co.
American Felt Co.
Armstrong Cork Co.
Auburn Mfg. Co., The
Aviation Textile Associates
Booth Felt Co. Inc.
Boston Felt Co.
Commonwealth Felt Co.
Delta Chemical Works, Inc.
E. I. Du Pont de Nemours & Co. Inc.
Felters Co., The
General Gasket Inc.
National Felt Co.
W. S. Shamban & Co.
Western Felt Works & Acadia Synthetic Products Div.

FERRIC OXIDES

Columbian Carbon Co., Mapico Iron Oxides Unit
Delta Chemical Works, Inc.
***KEARFOTT CO., INC.**
Matheson Co., Inc., The
Minnesota Mining & Mfg. Co.
United Mineral & Chemical Corp.
Vitro Labs.

FERRITES

Crucible Steel Co. of America
Curtiss-Wright Corp., Research Div.
Curtiss-Wright Corp., Santa Barbara Div.
DBM Research Corp.
Ferroxcube Corp. of America
***KEARFOTT CO., INC.**
Matheson Co., Inc., The
Motorola Inc., Military Electronics Div.
National Moldite Co.
Stackpole Carbon Co.
Trionics Corp.
United Mineral & Chemical Corp.
Vitro Labs.

FIBER GLASS

Aerojet-General Corp.
Air Logistics Corp.
Aircraft Porous Media, Inc.
Allied Plastics Supply Corp.
Almac Plastics Inc.
American Rocket Co.
Apex Reinforced Plastics, Div.—White Sewing Machine Corp.
Auburn Mfg. Co., The
Aviation Textile Associates
Coast Mfg. & Supply Co.
DBM Research Corp.
Duracote Corp.
Eagle-Picher Co., The
Electrical Insulation Co., Inc.
Emmco Plastic Fabricators—Div.—E. M. McCarthy Machine Co.
Gustin-Bacon Mfg. Co.
Hardman Tool & Engrg., Co.
Havog Industries, Inc.
Johns-Manville
Johns-Manville Sales Corp.
Narmco Mfg. Co.
Reinhold Engrg. & Plastics Co.
W. S. Shamban & Co.
Skydyne, Inc.
Swedlow Inc.
H. I. Thompson Fiber Glass Co.
United States Chemical Milling Corp.
Universal Moulded Products Corp.
Wenzlau Engrg. Co.
Westinghouse Electric Corp.

FIBER GLASS REINFORCED PLASTICS

Aero Gasket Corp.
Aerojet-General Corp.
Air Logistics Corp.
Allied Plastics Supply Corp.
Almac Plastics Inc.
American Aerophysics Corp.
American Printed Circuits Co., Inc.
American Rocket Co.
Apex Reinforced Plastics, Div.—White Sewing Machine Corp.
Aristocrat Plastics, Inc.
Astrodyne, Inc.
Atkins & Merrill, Inc.
Carl H. Biggs Co.
Bonny Mfg. Corp.
Boston Insulated Wire & Cable Co.
Bow Solder Products Co., Inc.
Calfibe Co., Inc.
Chemplast, Inc.
Coast Mfg. & Supply Co.
Colonial Aircraft Corp.
Columbia Products Co.
Continental Can Co., Inc.
Continental Diamond Fibre Corp.
Cordo Chemical Corp.
Crystal-X Corp.
Curtiss-Wright Corp., Santa Barbara Div.
DBM Research Corp.
Delta Products Div.—Air Accessories, Inc.
E. I. Du Pont de Nemours & Co. Inc.
Duracote Corp.
Durez Plastics Div.—Hooker Chemical Corp.
Electrical Insulation Co., Inc.
Electro Technical Products Div. Sun Chemical Corp.
Eljay Corp.
Emerson & Cuming, Inc.
Emerson Plastics Corp.
Emmco Plastic Fabricators—Div.—E. M. McCarthy Machine Co.
Engineered Plastics, Inc.
Form-It Products, Inc.
Franklin Fibre-Lamitex Corp.
General Plastics Corp. of New Jersey
Gering Products, Inc.
B. F. Goodrich Aviation Products
Goodyear Aircraft Corp.
Grant Chemical Co., Inc.
Hardman Tool & Engrg., Co.
Havog Industries, Inc.
Hays Mfg. Co.
Honeycomb Co. of America, Inc.
Jarvis Corp.

Joclin Mfg. Co.
Johns-Manville
Johns-Manville Sales Corp.
H. Koch & Sons
Lamtex Industries, Inc.
Liss Products, Inc.
Lone Star Plastics Co. Inc.
Thomas J. Long, Inc.
Lynn Laminates, Inc.
Mansfield Fabricators Inc.
Marblette Corp., The
McMillan Industrial Corp.
Mica Insulator Div.—Minnesota Mining & Mfg., Co.
Milam Electric Mfg. Co.
Minnesota Mining & Mfg. Co.
Narmco Mfg. Co.
Narmco Resins & Coatings Co.
National Vulcanized Fibre Co.
New England Laminates Co., Inc.
Northern Plastics Corp.
Penn Fibre & Specialty Co., Inc.
Perry Plastics, Inc.
Plastic Age Sales, Inc.
Printronics Corp.
Raybestos-Manhattan, Inc., Pa.
Reinhold Engrg. & Plastics Co.
Republic Aviation Corp.
Rogers Corp.
Russell Reinforced Plastics Corp.
Ryan Aeronautical Co.
Scaife Co.—Div.—Wilson Bros.
W. S. Shamban & Co.
Skydyne, Inc.
Spaulding Fibre Co., Inc.
Specialty Engrg. & Electronics Co.
Stevens Products, Inc.
Swedlow Inc.
H. I. Thompson Fiber Glass Co.
Topper Mfg. Co., Inc.
U. S. Fiber & Plastics Corp.
United States Chemical Milling Corp.
United States Plywood Corp.
United States Rubber Co.
Universal Moulded Products Corp.
Wenzlau Engrg. Co.
Young Development Div., Hercules Powder Co.

FIBER, VULCANIZED

Acme Mfg. & Gasket Co.
Allied Plastics Supply Corp.
American Aerophysics Corp.
Auburn Mfg. Co., The
Boston Insulated Wire & Cable Co.
Comco Plastics Inc.
Continental Diamond Fibre Corp.
Electrical Insulation Co., Inc.
Engineered Plastics, Inc.
Form-It Products, Inc.
Franklin Fibre-Lamitex Corp.
General Gasket Inc.
Haveg Industries, Inc.
Thomas J. Long, Inc.
Mansfield Fabricators Inc.
Milam Electric Mfg. Co.
National Vulcanized Fibre Co.
Penn Fibre & Specialty Co., Inc.
Rogers Corp.
Spaulding Fibre Co., Inc.
Taylor Fibre Co.
Wilmington Fibre Specialty Co.

GERMANIUM

Accurate Specialties Co. Inc.
Alloys Unlimited Inc.
Belmont Smelting & Refining Works, Inc.
Bram Metallurgical & Chemical Co.
Delta Chemical Works, Inc.
Eagle-Picher Co., The
Knapic Electro-Physics
Metals & Controls Corp., General Plate Div.
Motorola Inc., Military Electronics Div.
Sylvania Electric Products Inc., Chemical & Metallurgical Div.
United Mineral & Chemical Corp.

GLASS INSULATION

Acme Wire Co.
Allied Plastics Supply Corp.
American Machine & Foundry Co., Government Products Group
Auburn Mfg. Co., The
Boston Insulated Wire & Cable Co.
Corning Glass Works
Eagle-Picher Co., The
Electrical Insulation Co., Inc.
Gustin-Bacon Mfg. Co.
Johns-Manville Sales Corp.
Lamtex Industries, Inc.
Mica Fabricating Co.
Pittsburgh Corning Corp.
Union Asbestos & Rubber Co.
Universal Moulded Products Corp.
Wenzlau Engrg. Co.
Westinghouse Electric Corp.

GLASS, MICA-WOVEN OR LAMINATED

Allied Plastics Supply Corp.
American Machine & Foundry Co., Government Products Group
American Printed Circuits Co., Inc.
Boston Insulated Wire & Cable Co.
Continental Diamond Fibre Corp.
Deringer Metallurgical Corp.
Duracote Corp.
Electrical Insulation Co., Inc.
Haveg Industries, Inc.
Integrated Mica Corp.
Thomas J. Long, Inc.
Mica Fabricating Co.
Mica Insulator Div.—Minnesota Mining & Mfg., Co.
New England Laminates Co., Inc.
St. Regis Paper Co., Panelyte Div.
Sierracin Corp., The
Sterling Glass Corp.
United Mineral & Chemical Corp.
Westinghouse Electric Corp.

GOLD

Accurate Specialties Co. Inc.
Alloys Unlimited Inc.
American Printed Circuits Co., Inc.
American Silver Co.
Attleboro Refining Co., Inc.
J. Bishop & Co., Platinum Works
Bram Metallurgical & Chemical Co.
Eastern Smelting & Refining Corp.
Engelhard Industries, Inc.
Engelhard Industries, Inc., D. E. Makepeace Div.
Handy & Harman
M-W Labs., Inc.
Matheson Co., Inc., The
Metals & Controls Corp., General Plate Div.
Nesor Alloy Products Co.
J. M. Ney Co., The
Pacific Scientific Co.
Precision Electroplating Co.
Sel-Rex Corp.
Spectronic Plating Co., Inc., Div.—Spectronome Plating Co., Inc.
Standard Metals Corp.
United Mineral & Chemical Corp.
Western Gold & Platinum Co.
Wildberg Bros. Smelting & Refining Co.

GRAIN, ALUNDUM

Del's Tumbling Service
Thermal Refractories Corp.

GRAPHITE, COLLOIDAL

Acheson Colloids Co., Div.—Acheson Industries, Inc.
Delta Chemical Works, Inc.
Grafo Colloids Corp.

GRAPHITE, LUBRICATING

Acheson Colloids Co., Div.—Acheson Industries, Inc.
Carbone Corp., The
Dyna-Therm Chemical Corp.
Grafo Colloids Corp.
Helwig Carbon Products, Inc.
Permatex Co., Inc.
Randall Graphite Bearings, Inc.
Servwell Products Co.
Superior Carbon Products, Inc.
Topper Mfg. Co., Inc.

GREASES, VACUUM

***DOW CORNING CORP.**
Kinney Mfg. Div., The New York Air Brake Co.
Minnesota Mining & Mfg. Co.

INSULATION MATERIALS

a. Aluminum oxide
b. Asbestos
c. Ceramic
d. Fabric
e. Fibre
f. Glass
g. Glass Fibre
h. Nylon
i. Paper
j. Silicone compounds

Acme Wire Co., **h, i.**
Aero Gasket Corp., **b, g, h, j.**
Aero Leather Products Co., **f.**
Allied International Co.
Allied Plastics Supply Corp., **b, d thru i.**
Aluminum Co. of America, **a.**
American Latex Products Corp., **j.**
American Lava Corp., **a, c.**
American Refractories & Crucible Corp., **a, c.**
Auburn Mfg. Co., The, **b, d, e, g thru j.**
Auburn Spark Plug Co., Inc., **a, c.**
Aviation Textile Associates, **d, e, g, h.**
Bacon Industries, Inc., **j.**
J. T. Baker Chemical Co., **a.**
Bemis Brothers Bag Co., **d, i.**
Bendix Filter Div., Bendix Aviation Corp., **g.**
***BENDIX PRODUCTS DIV., BENDIX AVIATION CORP., c.**
Bio-Rad Labs., **a.**
Birmo Mfg. Co. Inc., **c, e, g.**
Calfibe Co., Inc., **g.**
Campco, Div.—Chicago Molded Products Corp., **h.**
Carborundum Co., Latrobe Plant, Refractories Div., **c, f.**
Carborundum Co., Refractories Div., **c, e.**
Centralab, Div.—Globe—Union, **c.**
Chemplast, Inc., **h.**
Coast Mfg. & Supply Co., **d.**
Colonial Rubber Co., **j.**
Comco Plastics Inc., **e, h, i.**
Connecticut Hard Rubber Co., The, **j.**
Continental Diamond Fibre Corp., **e.**
Corning Glass Works, **a, c, f.**
Crucible Steel Co. of America, **j.**
Crystal-X Corp., **h.**
Curtiss-Wright Corp., Santa Barbara Div., **a, c.**
DBM Research Corp., **c.**
Delta Chemical Works, Inc., **i.**
Diamonite Products Mfg. Co., **c.**
***DOW CORNING CORP., j.**
E. I. Du Pont de Nemours & Co. Inc., **e, h.**
Duracote Corp., **d, g, h.**
Duramic Products Inc., **a, c.**
Dyna-Therm Chemical Corp., **b, c, j.**
Eagle-Picher Co., The, **b, e, g.**
Ed-Berl Products, Inc., **j.**
Electrical Insulation Co., Inc., **b, d thru h, j.**
Electrical Refractories Co., The, **c.**
Electronic Mechanics, Inc., **a, c.**
Emerson & Cuming, Inc., **c.**
Emerson Plastics Corp., **e, h.**
Emmco Plastic Fabricators—Div.—E. M. McCarthy Machine Co., **f thru i.**
Enfab Inc., **g.**
Fluorulon Labs., Inc., **h.**
Form-It Products, Inc., **e, g, h.**
Franklin Fibre-Lamitex Corp., **e, g, h, j.**
Frenchtown Porcelain Co., **c.**
Furane Plastics, Inc., **f.**
George K. Garrett Co., Inc., **j.**
Gatke Corp., **b.**
General Electric Co., Insulator Dept., **c, j.**
General Gasket Inc., **b, e, g thru j.**
Gladding, McBean & Co., **a, c.**
Gulton Industries, Inc., **c.**
Gustin-Bacon Mfg. Co., **e, g.**
Haveg Industries, Inc., **b thru g, j.**
Hewitt-Robins, Inc., **i.**
Integrated Mica Corp., **i.**
Isolantite Mfg. Corp., **c.**
Johns-Manville, **b thru e, g, i, j.**
Johns-Manville Sales Corp., **b thru g, i.**
Jonesville Paper Tube Corp., **i.**
***KEARFOTT CO., INC., a.**
Kip Electronics Corp., **c.**
Lamtex Industries, Inc., **g.**
Thomas J. Long, Inc., **d thru j.**
Magnetic Shield Div. Perfection Mica Co., **d, f.**
Maryland Lava Co., **b, h.**
Metallizing Co. of Los Angeles Inc., **a, c, j.**
Mica Fabricating Co., **c, e.**
Milam Electric Mfg. Co., **b, d, e, i.**
Minnesota Mining & Mfg. Co., **a, c, d.**
Mitronics Inc., **a, c.**
Motorola Inc., Military Electronics Div., **c.**
National Beryllia Corp., **a, b, c.**
National Vulcanized Fibre Co., **e, h.**
New England Tape Co., Div.—United-Carr Fastener Corp., **h.**
Northern Plastics Corp., **b, d, g, h, i.**
Norton Co., **a, c.**
Norton Co., New Products Dept., **a, c.**
Penn Fibre & Specialty Co., Inc., **e, i.**
Permacel, **d, g, i, j.**
Perry Plastics, Inc., **h.**
Pilgrim Products Inc., **d thru i.**
Pittsburgh Corning Corp., **c, f.**
Plastic Age Sales, Inc., **b, c, g, j.**
Polymer Corp., The, **h.**
Products Research Co., **j.**
Raybestos-Manhattan, Inc., **b, j.**
Raybestos-Manhattan, Inc., Pa., **b, j.**
Reinhold Engrg. & Plastics Co., **b, f.**
Rogers Corp., **b, c, e, i.**
Sanford Plastics Corp., **h.**
Schlegel Mfg. Co., **d, h.**
W. S. Shamban & Co., **i.**
Silicones Div.—Union Carbide Corp., **j.**
Spaulding Fibre Co., Inc., **e, h. i.**
Sterling Glass Corp., **f.**
Stone City Products Co., **i.**
Superior Steatite & Ceramic Corp., **c.**
Swedlow Inc., **g, h.**
Thermal Refractories Corp., **a, c.**
H. I. Thompson Fiber Glass Co., **g.**
Topper Mfg. Co., Inc., **a, c.**
Union Asbestos & Rubber Co., **b, d, e, f.**
United Mineral & Chemical Corp., **a, c.**
United States Plywood Corp., **b.**
United States Rubber Co., **b.**
Universal Moulded Products Corp., **a thru j.**
Wenzlau Engrg. Co., **b, f.**
Western Gold & Platinum Co., **c.**
Westinghouse Electric Corp., **d.**
Westinghouse Electric Corp., Lamp Div., **f.**
Wilmington Fibre Specialty Co., **e.**
Zippertubing Co., The, **b.**
Zirconium Corp. of America, **c.**

IRON

American Brake Shoe Co.
American Silver Co.
Armco Steel Corp.
C. Lee Cook Co., Airtomic Products Div.
Farrel Birmingham Co. Inc.
Hamilton Watch Co.—Industrial Div.
Lapham Hickey Steel Corp.
Lindgren Foundry Co.
Matheson Co., Inc., The
Nesor Alloy Products Co.
Nordberg Mfg. Co.
Peerless Machine Co.
Precision Shapes, Inc.
Republic Steel Corp.
Joseph T. Ryerson & Son, Inc.
Swayne, Robinson & Co.

LEAD & ALLOYS

Accurate Specialties Co. Inc.
Allied Research Products, Inc.
Alloys Unlimited Inc.
Alpha Metals, Inc.
American Brake Shoe Co.
American Smelting & Refining Co.
Anchor Metal Co. Inc.
J. T. Baker Chemical Co.
Belmont Smelting & Refining Works, Inc.
Bow Solder Products Co., Inc.
Delta Chemical Works, Inc.
Devcon Corp.
Division Lead Co.
Eagle-Picher Co., The
Farrel Birmingham Co. Inc.
Liss Products, Inc.
National Lead Co.
Nesor Alloy Products Co.
United Mineral & Chemical Corp.

LITHIUM

Accurate Specialties Co. Inc.
Alloys Unlimited Inc.
***AMERICAN POTASH & CHEMICAL CORP.**
Barium & Chemicals, Inc.
Belmont Smelting & Refining Works, Inc.
Bram Metallurgical & Chemical Co.
Continental Metals, Inc.
Delta Chemical Works, Inc.
Foote Mineral Co.
Lithium Corp. of America, Inc.
Matheson Co., Inc., The
Republic Lens Co. Inc.
United Mineral & Chemical Corp.

MAGNESIUM & ALLOYS

Accurate Specialties Co. Inc.
Alloys Unlimited Inc.
American Brake Shoe Co.
American Brazing Alloys Co.
American Silver Co.
American Smelting & Refining Co.
Avion Foundry Corp.
Belmont Smelting & Refining Works, Inc.
Benson Mfg., Co., The
Bond Metal Surplus Co.
Bram Metallurgical & Chemical Co.
Bridgeport Brass Co.
Brooks & Perkins, Inc.
Crucible Steel Co. of America
Dalweld Co. Inc.
Davison Chemical Co.
Delta Chemical Works, Inc.
Doehler-Jarvis Div., National Lead Co.
Dow Chemical Co., The
Light Metals, Inc.
Mercast Mfg. Corp.
Metals & Controls Corp., General Plate Div.
Precision Shapes, Inc.
Joseph T. Ryerson & Son, Inc.
Wellman Bronze & Aluminum Co.

MANGANESE

Alloys Unlimited Inc.
American Nickel Alloy Mfg. Corp.
Belmont Smelting & Refining Works, Inc.
Bram Metallurgical & Chemical Co.
Delta Chemical Works, Inc.
Electric Steel Foundry Co.
Foote Mineral Co.
Matheson Co., Inc., The
Union Carbide Metals Co., Div.—Union Carbide Corp.
Waimet Alloys Co., Div.—Consolidated Foundries & Mfg. Corp.

MERCURY

Alloys Unlimited Inc.
Anchor Metal Co. Inc.
Belmont Smelting & Refining Works, Inc.
Bram Metallurgical & Chemical Co.
Eastern Smelting & Refining Corp.
Fisher Scientific Co.
General Electric Co., Lamp Metals & Components Dept.
Matheson Co., Inc., The
Wildberg Bros. Smelting & Refining Co.

METAL PARTS

a. Bushings
b. Lead
c. Powdered
e. Screw machine
e. Small metal stampings
f. Spinnings
g. Trimmings

ACF Industries Inc., **d, e.**
Accurate Specialties Co. Inc., **b, c, e.**
Acme Mfg. & Gasket Co., **b, e.**
Aero Gasket Corp., **e.**
Aerodex, Inc., **e.**
Allen Tool Corp.
Alloys Unlimited Inc., **b, e.**
Alpha Metals, Inc., **b, e.**
Aluminum Co. of America, **c, d, e.**
Amatom Electronic Hardware Co. Inc., **d, e.**
American Aluminum Co., **e, f.**
American Brake Shoe Co., **a.**
American Brass Co., The, **e.**
American Hinge Corp., **a, d.**
American Non Gran Bronze Co., **a, d.**
American Silver Co., **e.**
American Standard Products, Inc., **a, d, e.**
Ampco Metal, Inc., **a.**
Anchor Metal Co. Inc., **b.**
Anchor Metal Spinning Co., The, **e, f.**
Associated Engrg. & Mfg. Corp., **c, e, f.**
Astronautics Engrg. Co., **d, e.**
Auburn Mfg. Co., The, **e.**
Augat Brothers, Inc., **e.**
Beemer Engrg. Co., **a, c.**
Belmont Smelting & Refining Works, Inc., **b, c.**
***BENDIX PRODUCTS DIV., BENDIX AVIATION CORP., c.**
Benson Mfg., Co., The, **d, e, f.**
Best Aircraft Corp., **a, d.**
Brighton Corp., **e, f.**
Brooks & Perkins, Inc., **e, f.**
Capital City Mfg. Co., **a thru d.**
Carmac Aviation, **a, d, e, f.**
Century Fasteners Corp., **a, d, e.**
Chicago Screw Co., The, Div.—Standard Screw Co., **c.**
Cleveland Graphite Bronze, Div.—Clevite Corp., **a.**
Corbin Products Div., **a, d.**
Croname Inc., **e.**
Curtiss-Wright Corp.—Wright Aeronautical Div., **d, e, f.**
Danbury Centerless Grinding Co., **d.**
Diversey Engrg. Co., **f**
Division Lead Co., **b.**
Dockendorff & Co., Inc., **d, e.**
Dresser Industries, Inc., **a, d, e, f.**
Duro Specialty Co., Inc., **d, e.**
Eastern Specialty Co., The, **d, e.**
Electric Steel Foundry Co., **a.**
Electronic Parts Mfg. Co., Inc., **d, e.**
Elzee Metal Products Co., Inc., **d, e, f.**
Emmco Plastic Fabricators—Div.—E. M. McCarthy Machine Co., **d, e, f.**
Engelhard Industries, Inc., **c.**
Etched Products Corp., **e, g.**
Farwell Metal Fabricating, **e.**
George K. Garrett Co., Inc., **e.**
Gibson Electric Co., **c.**
Globe Industries, Inc., Supermet Div., **c.**
Gordon Enterprises, **d, e, f.**
Great Eastern Metal Products Co., **e.**
Green Rectifier Co., **e.**
HPL Mfg. Co., **e.**
Harvey Aluminum, **d.**
Hobson Brothers, Inc., **e.**
Interlake Stamping Corp., **e.**
Jan Hardware Mfg. Co., Inc., **a, d, e.**
Joma Inc., **e.**
Kaiser Aircraft & Electronics, Div.—Kaiser Industries Corp., **e, f, g.**
Kaiser Metal Products, Inc.—Fleetwings Div., **e, f.**
C. B. Kaupp & Sons, Inc., **e, f.**
Kelsey-Hayes Co., **e.**
Keystone Electronics Corp., **a, d, e.**
Kickhaefer Mfg. Co., **e.**
Kling Metal Spinning & Stamping Co., **e, f, g.**
Lamson & Sessions Co., The, **d.**
***LAVEZZI MACHINE WORKS, a, d, e.**
Lucas Aircraft Supply Co., **c, d.**
Lux Clock Mfg. Co., Inc., **c, d, e.**
***LYCOMING DIV., AVCO MFG. CORP., f.**
Malco Mfg. Co., **e.**
Metals & Controls Corp., General Plate Div.
Moody Machine Products Co., Inc., **d.**
Moran Co., **d.**
Mueller Brass Co., **c, d.**
National Moldite Co., **c.**
J. M. Ney Co., The, **c, d.**
Pacific Cut Washer Co., **e.**
Peerless Machine Co., **d, e.**
H. K. Porter Co., Inc., **d.**
Precision Shapes, Inc.
Prereg Mfg. Inc., **e.**
R & R Engrg. Co.
Randall Graphite Bearings, Inc., **a.**
Raybestos-Manhattan, Inc., Pa., **c.**
Red Devil Mfg. Co., **d.**
Research Development Mfg. Inc., **d.**
Roll Formed Products Co., **g.**
Joseph T. Ryerson & Son, Inc., **e.**
St. Marys Carbon Co., **a, c, e.**
Ray A. Scharer & Co., **a, d, e.**
Shenango Furnace Co., The, Centrifugally Cast Products Div.
Sphinx-American Co., **d.**
Spincraft, Inc., **e, f.**
Standard Locknut & Lockwasher Inc., **d, e.**
Stanley-Judd Div.—The Stanley Works, **d thru g.**
Staver Co., Inc., The, **a, d.**
Edwin B. Stimpson Co., Inc., **e.**
Stone City Products Co., **e.**
Superior Carbon Products, Inc., **a, c.**
Superior Spinning & Stamping Co., **e, f.**
Swiss Jewel Co., **d.**
Sylvania Electric Products Inc., Parts Div., **e.**
Roland Teiner Co., Inc., **e, f.**
Torrington Co., The
True Alloys Inc., **a.**
United Mineral & Chemical Corp., **c, e.**
United States Chemical Milling Corp., **e, f.**
Waltham Screw Co., **d.**
***WEATHERHEAD CO., THE, d.**
Westinghouse Electric Corp., Metals Plant, **c.**
Wilks Precision Instrument Co., Inc., **a, d, e, f.**
Woodworth Specialties Corp., **d.**
Worcester Pressed Steel Co., **e.**
Wrought Washer Mfg. Co., **a, e.**
Zierick Mfg. Corp., **e.**

METAL STOCK, POROUS BEARING

Beemer Engrg. Co.
***BENDIX PRODUCTS DIV., BENDIX AVIATION CORP.**
Keystone Carbon Co.
St. Marys Carbon Co.

METAL STOCK, THERMOSTATIC

American Silver Co.
Engelhard Industries, Inc.

MICA, GLASS BONDED

Allied Plastics Supply Corp.
Comco Plastics Inc.
Haveg Industries, Inc.
Integrated Mica Corp.
Magnetic Shield Div. Perfection Mica Co.
Micc Fabricating Co.
Minnesota Mining & Mfg. Co.
United Mineral & Chemical Corp.
Westinghouse Electric Corp.

MOLYBDENUM

Accurate Specialties Co. Inc.
Alloys Unlimited Inc.
American Nickel Alloy Mfg. Corp.
American Silver Co.
Associated Engrg. & Mfg. Corp.
J. T. Baker Chemical Co.
Belmont Smelting & Refining Works, Inc.
Bram Metallurgical & Chemical Co.
Bridgeport Brass Co.
Continental Metals, Inc.
Crucible Steel Co. of America
Damascus Tube Co.
Delta Chemical Works, Inc.
Eisler Engrg. Co., Inc.
Electronic Parts Mfg. Co., Inc.
Elmet Div.—North American Philips Co., Inc.
Finn Aeronautical Div., T. R. Finn & Co., Inc.
General Electric Co., Lamp Metals & Components Dept.
Hamilton Watch Co.
Hamilton Watch Co.—Industrial Div.
Johnston & Funk Titanium Corp.
P. R. Mallory & Co. Inc.
***MALLORY-SHARON METALS CORP.**
Matheson Co., Inc., The
Mercast Mfg. Corp.
Metals & Controls Corp., General Plate Div.
Nesor Alloy Products Co.
Precision Shapes, Inc.
Sylvania Electric Products Inc., Chemical & Metallurgical Div.
Universal-Cyclops Steel Corp.
Waimet Alloys Co., Div. Consolidated Foundries & Mfg. Corp.
Waukesha Foundry Co.
Westinghouse Electric Corp., Lamp Div.
Westinghouse Electric Corp., Metals Plant

MONEL

Accurate Specialties Co. Inc.
Alloys Unlimited Inc.
American Hinge Corp.
American Nickel Alloy Mfg. Corp.
American Silver Co.
J. T. Baker Chemical Co.
Belmont Smelting & Refining Works, Inc.
Benson Mfg., Co., The
Bond Metal Surplus Co.
Bram Metallurgical & Chemical Co.
Bridgeport Brass Co.
Continental Metals, Inc.
Crucible Steel Co. of America
Damascus Tube Co.
Delta Chemical Works, Inc.
Wilbur B. Driver Co.
Electric Steel Foundry Co.
Electronic Parts Mfg. Co., Inc.
Hamilton Watch Co.
Hamilton Watch Co.—Industrial Div.
Haynes Stellite Co., Div.—Union Carbide Corp.
International Nickel Co., The
Kolcast Industries—Div. Thompson Ramo Wooldridge Inc.
Charles E. Larson & Sons, Inc.
Lebanon Steel Foundry
M-W Labs., Inc.
Nesor Alloy Products Co.
Precision Shapes, Inc.
Precision Tube Co., Inc.
Shenango Furnace Co., The, Centrifugally Cast Products Div.
Somers Brass Co. Inc.
Waimet Alloys Co., Div. Consolidated Foundries & Mfg. Corp.
Waukesha Foundry Co.

NICKEL

Accurate Specialties Co. Inc.
Allied Research Products, Inc.
Alloys Unlimited Inc.
American Brazing Alloys Co.
American Hinge Corp.
American Nickel Alloy Mfg. Corp.
American Silver Co.
Belmont Smelting & Refining Works, Inc.
Bram Metallurgical & Chemical Co.
Bridgeport Brass Co.
Dalweld Co. Inc.
Damascus Tube Co.
Wilbur B. Driver Co.
Electric Steel Foundry Co.
Foote Mineral Co.
Hamilton Watch Co.
Hamilton Watch Co.—Industrial Div.
Hoskins Mfg. Co.
International Nickel Co., The
Kolcast Industries—Div. Thompson Ramo Wooldridge Inc.
Lebanon Steel Foundry
Lucas Aircraft Supply Co.
Matheson Co., Inc., The
Mercast Mfg. Corp.
National Lead Co.
Nesor Alloy Products Co.
Precision Shapes, Inc.
Precision Tube Co., Inc.
Shenango Furnace Co., The, Centrifugally Cast Products Div.
Somers Brass Co. Inc.
Waimet Alloys Co., Div. Consolidated Foundries & Mfg. Corp.

NUCLEAR SHIELDING, LEAD

Accurate Specialties Co. Inc.
Alloys Unlimited Inc.
American Smelting & Refining Co.
Belmont Smelting & Refining Works, Inc.
Division Lead Co.
Farrel Birmingham Co. Inc.
Staver Co., Inc., The

OXIDE, ALUMINUM

Accurate Specialties Co. Inc.
Aluminum Co. of America
American Lava Corp.
J. T. Baker Chemical Co.
Bio-Rad Labs.
Corning Glass Works
Curtiss-Wright Corp., Research Div.
Curtiss-Wright Corp., Santa Barbara Div.
Del's Tumbling Service
Delta Chemical Works, Inc.
Diamonite Products Mfg. Co.
Engelhard Industries Inc., D. E. Makepeace Div.
Gladding, McBean & Co.
Matheson Co., Inc., The
Metallizing Co. of Los Angeles Inc.
Norton Co.
Norton Co., New Products Dept.
Thermal Refractories Corp.
United Mineral & Chemical Corp.
Vascoloy-Ramet Corp.

PALLADIUM

Accurate Specialties Co. Inc.
Alloys Unlimited Inc.
Almac Plastics Inc.
American Silver Co.
Bram Metallurgical & Chemical Co.
Delta Chemical Works, Inc.
Deringer Metallurgical Corp.
Eastern Smelting & Refining Corp.
Engelhard Industries, Inc.
Hamilton Watch Co.—Industrial Div.
Handy & Harman
M-W Labs., Inc.
Matheson Co., Inc., The
Metals & Controls Corp., General Plate Div.
J. M. Ney Co., The
Sel-Rex Corp.
Spectronic Plating Co., Inc., Div.—Spectranome Plating Co., Inc.
United Mineral & Chemical Corp.
Wildberg Bros. Smelting & Refining Co.

PHENOLICS

Abesto Corp.
Air Logistics Corp.
Allied Plastics Supply Corp.
Auburn Mfg. Co., The
Bios Labs., Inc.
Borden Chemical Co.
Comco Plastics Inc.
Continental Diamond Fibre Corp.
Crystal-X Corp.
Duralith Corp.
Electrical Insulation Co., Inc.
Electro Technical Products Div. Sun Chemical Corp.
Engineered Plastics, Inc.
Fisher & Crome
Franklin Fibre-Lamitex Corp.
Haveg Industries, Inc.
Joclin Mfg. Co.
Thomas J. Long, Inc.
Mansfield Fabricators Inc.
Marblette Corp., The
Mica Fabricating Co.
Minnesota Mining & Mfg. Co.
National Moldite Co.
National Vulcanized Fibre Co.
New England Laminates Co., Inc.
Reichhold Chemicals, Inc.
Reinhold Engrg. & Plastics Co.
Rogers Corp.
Spaulding Fibre Co., Inc.
Wilmington Fibre Specialty Co.

PLASTIC

a. Acrylic
b. Allyls
c. Cellulose acetate
d. Cellulose acetate butyrate
e. Cellulose nitrate
f. Ceramic-plastic combinations
g. Epoxy resins
h. Ethyl cellulose
i. Fiber glass
j. Fluorocarbons
k. Melamine formaldehyde
l. Mica-plastic combination
m. Phenolics
n. Polyester
o. Polyethylene
p. Polystyrene
q. Polytrifluorochlorethylene
r. Reinforced
s. Silicones
t. Styrene
u. Tetrafluoroethylene resin
v. Urea formaldehyde
w. Vinyl

Abesto Corp., **a, c, d, e, g thru k, m thru w.**
Acheson Colloids Co., Div.—Acheson Industries, Inc.
Acme Mfg. & Gasket Co., **c, s, w.**
Adhesive Engrg., Div.—Hiller Aircraft Corp., **g, i, m, r.**
Aero Gasket Corp., **j, q, r, s, u.**
Air Logistics Corp.
***ALLIED CHEMICAL CORP., GENERAL CHEMICAL DIV., j, q, u.**
Allied Plastics Supply Corp., **a, c, d, e, g thru u, w.**
Almac Plastics Inc., **a, c, d, i, l., n, o, v, w.**
American Agile Corp., **e, u.**
American Latex Products Corp., **f, g, n, q, t.**
American Rocket Co., **g, m, n, r, w.**
Anchor Plastics Co., Inc., **a, c, d, h, o, p, t.**
Apex Reinforced Plastics, Div.—White Sewing Machine Corp., **r.**
Aries Laboratories, Inc., **g.**
Aristocrat Plastics, Inc., **a, c, d, h, j, o, p, q, t, w.**
Astrodyne, Inc., **r.**
Auburn Mfg. Co., The, **a, c, e, i, j, m, o, p, q, w.**
J. T. Baker Chemical Co., **a.**
Balco Research Labs., Inc., Capacitor Div., **g, n, p, q.**
Bemis Brothers Bag Co., **e.**
***BENDIX PRODUCTS DIV., BENDIX AVIATION CORP., f.**
Carl H. Biggs Co., **g.**
Bios Labs., Inc., **a thru k, m thru q, s thru w.**
Blossom Mfg. Co. Inc., **m, n, o, w.**
Bonny Mfg. Corp., **j, u.**
Borden Chemical Co., **f, g, k, m, p, v, w.**
Borden Chemical Co., The, Div.—The Borden Co., Resinite Dept., **w.**
Brithart Plastics Corp., **g, j.**
Butler Mfg. Co.
Calfibe Co., Inc., **r.**
Campco, Div.—Chicago Molded Products Corp., **c, d, h, o, p, t.**
Carboline Co., **g, m, w.**
Carbone Corp., The, **r.**
Catalin Corp. of America, **e, p, t.**
Chemical Products Corp., **w.**
Chemold Co., **n, r, s.**
Chicago Gasket Co., **u.**
Chicago Rawhide Mfg. Co., **j, q, r, s.**
Ciba Products Corp., **g.**
Cincinnati Div., The Cincinnati Milling Machine Co., **r.**
Coast Mfg. & Supply Co., **f, g, i, m, n, r, s.**
Colonial Rubber Co., **s.**
Comco Plastics Inc., **a, c, d, g, j, k, m, o, p, s, t, w.**
Continental Can Co., Inc., **i, r.**
Continental Diamond Fibre Corp., **g, i, j, l, m, n, r, s, u.**
Cooper Industries, Inc., **d, e.**
Cordo Chemical Corp., **g, m, w.**
Crystal-X Corp., **a, c, d, e, h thru r, t, w.**
DBM Research Corp., **f, g, i, m, p, w.**
De Bell & Richardson Inc.
Delta Products Div.—Air Accessories, Inc., **a, c, d, e, o, p, q.**
Devcon Corp., **a, c, d, e, g, p, s, t.**
Dow Chemical Co., The, **g, h, o, p, t, w.**
***DOW CORNING CORP., s.**
E. I. Du Pont de Nemours & Co. Inc., **a, c, e, i, j, n, o, r, u, w.**
Duracote Corp., **i, w.**
Duralith Corp., **k, m, n, r, w.**
Durez Plastics Div.—Hooker Chemical Corp., **m, n, r.**
Eagle-Picher Co., The, **i.**
Eastman Kodak Co., **c, d.**
Electrical Insulation Co., Inc., **a, i, k, m thru q, s, u, w.**
Electro Technical Products Div. Sun Chemical Corp., **g, i, m, n, r, s.**
Eljay Corp., **a.**
Emerson & Cuming, Inc., **f, g, n thru t.**
Emerson Plastics Corp., **a thru d, g thru k, m thru u, w.**
Emmco Plastic Fabricators—Div.—E. M. McCarthy Machine Co., **g, l, w.**
Engineered Plastics, Inc., **a, c, j, k, m, o, p.**
Fabri-Form Co., The, **a, c, d, m, o, p, t, w.**
Fidelity Chemical Products Corp., **d, h.**
Flexrock Co., **j.**
Fluorocarbon Co., The, **q, t.**
Fluorulon Labs., Inc., **j, q, u.**
Food Machinery & Chemical Corp., **b.**
Franklin Fibre-Lamitex Corp., **a, c, g, m thru p, w.**
Furane Plastics, Inc., **f, g, r, u.**
General Gasket Inc., **c, d, j, o, s, u, w.**
General Plastics Corp. of New Jersey, **i, j, q, u.**
Gering Products, Inc., **a, c, d, h, i, o, p, t, w.**
Gladding, McBean & Co., **f.**
B. F. Goodrich Industrial Products Co., **w.**
Grant Chemical Co., Inc., **g, i, l, n, r.**
Halogen Insulator & Seal Corp., **i, t.**
Hardman Tool & Engrg., Co., **g, i, r.**
Haveg Industries, Inc., **f, g, j thru n, q, r, s, u, v, w.**
Hewitt-Robins, Inc., **r.**
Homalite Corp., The, **b, g, i, n.**
Houghton Laboratories, Inc., **g.**
Huntington Rubber Mills, **s.**
Illumitronic Engrg. Co., **a, m, o, p, t.**
International Resistance Co., **m.**
Joclin Mfg. Co., **i, j, k, m, q, r, u.**
Jodee Plastics Co., **a, c, d, e, h, j, m, o, p, q, t, u, w.**
Johns-Manville, **i.**
Johns-Manville Sales Corp., **f, i, r.**
Koppers Co., Inc., **n, o, t.**
Lamtex Industries, Inc., **g, i, r.**
Lebec Chemical Corp., **d, g, h, m.**
Liss Products, Inc., **a, r.**
Thomas J. Long, Inc., **a, c, m thru t, w.**
Luminous Resins Inc., **a, o, p.**
Magnetic Shield Div. Perfection Mica Co., **k.**
Mansfield Fabricators Inc., **m, n.**
Marblette Corp., The, **a, g, m.**
Maryland Lava Co., **g, p.**
Matheson Co. Inc., The, **c, j.**
Metallizing Co. of Los Angeles Inc., **f.**
Mica Fabricating Co., **l.**
Mica Insulator Div.—Minnesota Mining & Mfg., Co., **l.**
Milam Electric Mfg. Co., **r.**
Minnesota Mining & Mfg. Co., **g, i, j, l, m, q, r, w.**
Morningstar-Paisley, Inc., **w.**
Mueller Brass Co., **e, t, w.**
Narmco Mfg. Co., **g, i, m, n, o, r.**
Narmco Resins & Coatings Co., **g, q.**
National Tube Div.—United States Steel Corp., **o, w.**
National Vulcanized Fibre Co., **g, j, k, m, n, r, s, u.**
Natvar Corp., **e, p, w.**
New England Laminates Co., Inc., **m, r.**
New England Tape Co., Div.—United-Carr Fastener Corp., **c, d, o, p, t, w.**
Norton Co., **f.**
Orchard Industries, Inc., Actionflex Div., **g, n, s.**
Penn Fibre & Specialty Co., Inc., **m.**
Permacel, **g, j, s, u.**
Pilgrim Products Inc., **a.**
Plasteck, Inc., **a.**
Plastic Age Sales, Inc., **a, c, d, f, g, i, m, n, r, s.**
Polyken Sales Div., The Kendall Co., **a.**
Polymer Corp., The, **g, j, o, p.**
Printronics Corp., **m.**
Pry Welding & Mfg., Inc., **p.**
Raybestos-Manhattan, Inc., Pa., **g, j, m, r, s, u.**
Reichhold Chemicals, Inc., **a, g, k, m, n, r, v.**
Reinhold Engrg. & Plastics Co., **b, g, i, l, m, n, r.**
Republic Aviation Corp., **g.**
Rex Corp., The, Sub.—American Enka, **q.**
Rez-Coat of California, **i, m, n, r.**
Rogers Corp., **f, j, m, r.**
Milton Ross Metals Co., The, **a, c, d, e, g, h, j thru q, s thru w.**
Russell Reinforced Plastics Corp., **r.**
Joseph T. Ryerson & Son, Inc., **o, p, t.**
St. Regis Paper Co., Panelyte Div., **k, m, o, r, s.**
Sanford Plastics Corp., **j, q.**
Ray A. Scharer & Co., **a, c, d, e, k, m thru w.**
Schlegel Mfg. Co., **n, o.**
Seal-Peel, Inc., **d, h.**
W. S. Shamban & Co., **j, q, u.**
Shell Chemical Corp., Industrial Chemicals Div., **g.**
Sierracin Corp., The, **a, n.**
Silicone Insulation, Inc., **g, m, n, r, s.**
Silicones Div.—Union Carbide Corp., **s.**
Smooth-On Mfg. Co., **g.**
Special Projects Lab., Food Machinery Chemical Corp., **g.**
Superior Carbon Products, Inc., **g, m.**
Swedlow Inc., **a.**
Thermech Engrg. Corp., **j.**
H. I. Thompson Fiber Glass Co., **i, r.**
Topper Mfg. Co., Inc., **f, g, j, p.**
Trionics Corp., **a, f, g, m, n, o.**
Tri-Point Plastics Inc., **j.**
Turbo Products, Inc., **j.**
United Mineral & Chemical Corp., **l.**
U. S. Fiber & Plastics Corp., **w.**
United States Rubber Co., **g, n, w.**
United Supply Co., **a, b.**
Universal Unlimited, Inc., **a, c, d, n, o, s, v.**
Virginia Plak Co., **a, w.**
Western Coating Co., **d, h.**
Western Felt Works & Acadia Synthetic Products Div., **a, c, d, h, m, n, o, s.**
Westinghouse Electric Corp., **k, m, n, r, s.**
Westlake Plastics Co., **a, c, d, g, h, i, n, o, p, s, t, w.**
Winzen Research Inc., **n.**
X-Pando Corp., **g.**
Zippertubing Co., The, **i, j, o, w.**

PLASTICS, LAMINATED

Abesto Corp.
Adept Industries Inc.
Aerojet-General Corp.
Air Logistics Corp.
Allied Plastics Supply Corp.
American Aerophysics Corp.
American Printed Circuits Co., Inc.
American Rocket Co.
Atkins & Merrill, Inc.
Auburn Mfg. Co., The
Carl H. Biggs Co.
Calfibe Co., Inc.
Chemold Co.
Coast Mfg. & Supply Co.
Colonial Aircraft Corp.
Columbia Products Co.
Comco Plastics Inc.
Continental Diamond Fibre Corp.
C. Lee Cook Co., Airtomic Products Div.
Crystal-X Corp.
Curtiss-Wright Corp., Santa Barbara Div.
E. I. Du Pont de Nemours & Co. Inc.
Duralith Corp.
Eagle-Picher Co., The
Electrical Insulation Co., Inc.
Emerson Plastics Corp.
Emmco Plastic Fabricators—Div.—E. M. McCarthy Machine Co.
Engineered Plastics, Inc.
Farley & Loetscher Mfg. Co., Plastics Div.
Fluorulon Labs., Inc.
Franklin Fibre-Lamitex Corp.
Furane Plastics, Inc.
Gatke Corp.
General Gasket Inc.
General Plastics Corp. of New Jersey
B. F. Goodrich Aviation Products
Goodyear Aircraft Corp.
Grant Chemical Co., Inc.
Hardman Tool & Engrg., Co.
Haskelite Mfg. Corp.
Haveg Industries, Inc.
Honeycomb Co. of America, Inc.
International Resistance Co.
Joclin Mfg. Co.
Jodee Plastics Co.
Lamtex Industries, Inc.
Liss Products, Inc.
Thomas J. Long, Inc.
Luminous Resins Inc.
Mica Insulator Div.—Minnesota Mining & Mfg., Co.
Mico Instrument Co.
Milam Electric Mfg. Co.
Minnesota Mining & Mfg. Co.
Narmco Mfg. Co.
National Vulcanized Fibre Co.
New England Laminates Co., Inc.
Northern Plastics Corp.
Panel Engrg. Corp.
Penn Fibre & Specialty Co., Inc.
Perry Plastics, Inc.
Pilgrim Products Inc.
Plasteck, Inc.
Plastic Age Sales, Inc.
Process & Instruments
Raybestos-Manhattan, Inc.
Raybestos-Manhattan, Inc., Pa.
Reinhold Engrg. & Plastics Co.
Roberts Industries Inc.
Rogers Corp.
Milton Ross Metals Co., The
Russell Reinforced Plastics Corp.
Joseph T. Ryerson & Son, Inc.
St. Regis Paper Co., Panelyte Div.
W. S. Shamban & Co.
Sierracin Corp., The
Silicone Insulation, Inc.
Spaulding Fibre Co., Inc.
Specialty Engrg. & Electronics Co.
Superior Carbon Products, Inc.
Swedlow Inc.
Taylor Fibre Co.
H. I. Thompson Fiber Glass Co.
U. S. Relay Co.
United States Chemical Milling Corp.
Universal Moulded Products Corp.
Virginia Plak Co.
Wenzlau Engrg. Co.
Westinghouse Electric Corp.
Winzen Research Inc.
Zippertubing Co., The

PLYWOOD & METAL, BONDED

American Rocket Co.
Carl H. Biggs Co.
Furane Plastics, Inc.
Haskelite Mfg. Corp.

Liss Products, Inc.
Met-L-Wood Corp.
Skydyne, Inc.
United States Plywood Corp.

POLONIUM

Bios Labs., Inc.
United States Radium Corp.

PORCELAIN

Emerson & Cuming, Inc.
General Electric Co., Insulator Dept.
Gladding, McBean & Co.

QUARTZ, FUSED

Associated Engrg. & Mfg. Corp.
Bram Metallurgical & Chemical Co.
Corning Glass Works
Dell Optics Co., Ltd.
Emerson & Cuming, Inc.
Engelhard Industries, Inc.
General Electric Co., Lamp Glass Dept.
Haveg Industries, Inc.
Honeycomb Co. of America, Inc.
Mica Fabricating Co.
Narmco Resins & Coatings Co.
Republic Lens Co. Inc.
***ULTRA-VIOLET PRODUCTS, INC.**

RESINS, BONDING

Acheson Colloids Co., Div.—Acheson Industries, Inc.
Adhesive Engrg., Div.—Hiller Aircraft Corp.
American Rocket Co.
Aries Laboratories, Inc.
Armstrong Products Co.
Carl H. Biggs Co.
Borden Chemical Co.
Catalin Corp. of America
Cordo Chemical Corp.
DBM Research Corp.
Dayton Rubber Co., The
Dennis Chemical Co.
***DOW CORNING CORP.**
Emerson & Cuming, Inc.
Furane Plastics, Inc.
Grant Chemical Co., Inc.
Haveg Industries, Inc.
Honeycomb Co. of America, Inc.
Houghton Laboratories, Inc.
Lamtex Industries, Inc.
Lebec Chemical Corp.
Liss Products, Inc.
Minnesota Mining & Mfg. Co.
Permacel
Permatex Co., Inc.
Products Research Co.
Reichhold Chemicals, Inc.
Reinhold Engrg. & Plastics Co.
Shell Chemical Corp., Industrial Chemicals Div.
Silicones Div.—Union Carbide Corp.
Smooth-On Mfg. Co.
Topper Mfg. Co., Inc.
Trionics Corp.

RESINS, ENCAPSULATING

Adhesive Engrg., Div.—Hiller Aircraft Corp.
American Rocket Co.
Aries Laboratories, Inc.
Armstrong Products Co.
Carl H. Biggs Co.
Borden Chemical Co.
Ciba Products Corp.
DBM Research Corp.
Dayton Rubber Co., The
Dennis Chemical Co.
Devcon Corp.
Double E Products Co.
***DOW CORNING CORP.**
E. I. Du Pont de Nemours & Co. Inc.
Emerson & Cuming, Inc.
Furane Plastics, Inc.
Grant Chemical Co., Inc.
Haveg Industries, Inc.
Houghton Laboratories, Inc.
Lamtex Industries, Inc.
Lebec Chemical Corp.
Minnesota Mining & Mfg. Co.
National Engrg. Products, Inc.
Permacel
Products Research Co.
Reichhold Chemicals, Inc.
Reinhold Engrg. & Plastics Co.
Milton Ross Metals Co., The
Shell Chemical Corp., Industrial Chemicals Div.
Silicones Div.—Union Carbide Corp.
Smooth-On Mfg. Co.
Topper Mfg. Co., Inc.
Trionics Corp.
United States Rubber Co.
Westinghouse Electric Corp.

RESINS, POTTING

Adhesive Engrg., Div.—Hiller Aircraft Corp.
American Rocket Co.
Aries Laboratories, Inc.
Armstrong Products Co.
Carl H. Biggs Co.
Borden Chemical Co.
Ciba Products Corp.
DBM Research Corp.
Dayton Rubber Co., The
Dennis Chemical Co.
Devcon Corp.
Double E Products Co.
***DOW CORNING CORP.**
Emerson & Cuming, Inc.
Furane Plastics, Inc.
Grant Chemical Co., Inc.
Haveg Industries, Inc.
Houghton Laboratories, Inc.
Lamtex Industries, Inc.
Lebec Chemical Corp.
Minnesota Mining & Mfg. Co.
National Engrg. Products, Inc.
Permacel
Products Research Co.
Reichhold Chemicals, Inc.
Reinhold Engrg. & Plastics Co.
Milton Ross Metals Co., The
Shell Chemical Corp., Industrial Chemicals Div.
Silicones Div.—Union Carbide Corp.
Smooth-On Mfg. Co.
Special Projects Lab., Food Machinery & Chemical Corp.
Topper Mfg. Co., Inc.
Trionics Corp.
Westinghouse Electric Corp.

RESINS, SYNTHETIC

Adhesive Engrg., Div.—Hiller Aircraft Corp.
American Rocket Co.
Aries Laboratories, Inc.
Aristocrat Plastics, Inc.
Carl H. Biggs Co.
Bio-Rad Labs.
Borden Chemical Co.
Catalin Corp. of America
Ciba Products Corp.
DBM Research Corp.
Double E Products Co.
Dow Chemical Co., The
***DOW CORNING CORP.**
E. I. Du Pont de Nemours & Co., Inc.
Durez Plastics Div.—Hooker Chemical Corp.
Emerson & Cuming, Inc.
Furane Plastics, Inc.
Grant Chemical Co., Inc.
Haveg Industries, Inc.
Hercules Powder Co.
Houghton Laboratories, Inc.
Lebec Chemical Corp.
Minnesota Mining & Mfg. Co.
Permacel
Polymer Corp., The
Reichhold Chemicals, Inc.
Reinhold Engrg. & Plastics Co.
Shell Chemical Corp., Industrial Chemicals Div.
Silicones Div.—Union Carbide Corp.
Smooth-On Mfg. Co.
Topper Mfg. Co., Inc.
Trionics Corp.
United States Rubber Co.

RIVETS

Abbott Screw & Mfg. Co.
Aluminum Co. of America
American Hinge Corp.
Century Fasteners Corp.
Chase Brass & Copper Co., Inc.
Chicago Rivet & Machine Co.
Cooper Industries, Inc.
Corbin Products Div.
Deringer Metallurgical Corp.
Division Lead Co.
Emmco Plastic Fabricators—Div.—E. M. McCarthy Machine Co.
B. F. Goodrich Aviation Products
John Hassall, Inc.
Huck Mfg. Co.
Metals & Controls Corp., General Plate Div.
National Screw & Mfg. Co., The
Republic Steel Corp.
Screw Corp.
Edwin B. Stimpson Co., Inc.
***TOWNSEND CO., CHERRY RIVET DIV.**

RODS, TUNGSTEN

Alloys Unlimited Inc.
American Nickel Alloy Mfg. Corp.
Associated Engrg. & Mfg. Corp.
Bram Metallurgical & Chemical Co.
Delta Chemical Works, Inc.
Eisler Engrg. Co., Inc.
Electronic Parts Mfg. Co., Inc.
Elmet Div.—North American Philips Co., Inc.
General Electric Co., Lamp Metals & Components Dept.
***MALLORY-SHARON METALS CORP**
Sylvania Electric Products Inc., Chemical & Metallurgical Div.
Universal-Cyclops Steel Corp.
Westinghouse Electric Corp., Lamp Div.

RUBBER

a. Conductive
b. Hard
c. Insulation
d. Natural
e. Synthetic

Abesto Corp., **a thru e.**
Acme Mfg. & Gasket Co., **d, e.**
Aero Gasket Corp., **a, c, d, e.**
Amatom Electronic Hardware Co. Inc., **c.**
American Latex Products Corp., **c, d, e.**
Auburn Mfg. Co., The, **a thru e.**
Bellofram Corp., **e.**
Chicago Rawhide Mfg. Co., **e.**
Chicago-Allis Mfg. Corp., **e.**
Colonial Rubber Co., **a, c, d, e.**
Connecticut Hard Rubber Co., The, **c, e.**
Continental Rubber Works, **a, c, d, e.**
Dayton Rubber Co., The, **a thru e.**
Delta Chemical Works, Inc., **e.**
Devcon Corp., **c, e.**
***DOW CORNING CORP., e.**
Dresser Industries, Inc., **a, c, e.**
E. I. Du Pont de Nemours & Co. Inc., **a, c, d, e.**
Electrical Insulation Co., Inc., **b.**
Emerson & Cuming, Inc., **a.**
Firestone Tire & Rubber Co., The, Guided Missile Div., **d, e.**
General Gasket Inc., **a, d, e.**
B. F. Goodrich Aviation Products, **a thru e.**
B. F. Goodrich Industrial Products Co., **a, b, d, e.**
Goodyear Tire & Rubber Co., The, Aviation Products Div., **a thru e.**
Goshen Rubber Co., Inc., **a, d, e.**
Hewitt-Robins, Inc., **b, c, d.**
E. F. Houghton & Co., **e.**
Huntington Rubber Mills, **a thru d.**
Johns-Manville, **c, d, e.**
Mica Fabricating Co., **c.**
Minnesota Mining & Mfg. Co., **e.**
J. J. Monaghan Co., Inc., **a, e.**
Newth Rubber Co., **a, b, d, e.**
Orchard Industries, Inc., Actionflex Div., **e.**
Pacific Moulded Products, **a, b, d, e.**
Raybestos-Manhattan, Inc., **a thru e.**
Raybestos-Manhattan, Inc., Pa., **d, e.**
Fred T. Roberts & Co., **d, e.**
Roberts Toledo Rubber Co., The, **a thru e.**
Rubber Teck Inc., **a thru e.**
Rubbercraft Corp. of California, **a thru e.**
Ray A. Scharer & Co., **a thru e.**
Silicones Div.—Union Carbide Corp., **a, b, c, e.**
Smooth-On Mfg. Co., **e.**
United States Rubber Co., **a, c, d, e.**
Western Felt Works & Acadia Synthetic Products Div., **a, b, c, e.**

SILICON

Abesto Corp.
Alloys Unlimited Inc.
American Nickel Alloy Mfg. Corp.
Belmont Smelting & Refining Works, Inc.
Bios Labs., Inc.
Bram Metallurgical & Chemical Co.
Colonial Rubber Co.
Devcon Corp.
E. I. Du Pont de Nemours & Co. Inc.
Eagle-Picher Co., The
Foote Mineral Co.
Knapic Electro-Physics
Matheson Co., Inc., The
Merck & Co. Inc., Electronic Chemicals Div.
Motorola Inc., Military Electronics Div.
National Metallurgical Corp.
National Utilities Corp.
Ohio Precision Castings, Inc.
Plastic Age Sales, Inc.
Sylvania Electric Products Inc., Chemical & Metallurgical Div.
Union Carbide Metals Co., Div.—Union Carbide Corp.

SILICONE GREASES

Anderson Chemical Co., Div.—Stauffer Chemical Co.
***DOW CORNING CORP.**
Ed-Berl Products, Inc.
Merix Chemical Co.
National Engrg. Products, Inc.
Silicones Div.—Union Carbide Corp.

SILICONE OILS

Anderson Chemical Co., Div.—Stauffer Chemical Co.
Chicago Rawhide Mfg. Co.
***DOW CORNING CORP.**
Ed-Berl Products, Inc.
Hewitt-Robins, Inc.
Merix Chemical Co.
Silicones Div.—Union Carbide Corp.
Western Felt Works & Acadia Synthetic Products Div.

SILICONE RUBBER

Abesto Corp.
Acme Mfg. & Gasket Co.
Aero Gasket Corp.
Alloys Unlimited Inc.
Auburn Mfg. Co., The
Bellofram Corp.
Chicago-Allis Mfg. Corp.
Colonial Rubber Co.
Connecticut Hard Rubber Co., The
Continental Rubber Works
Deringer Metallurgical Corp.
***DOW CORNING CORP.**
E. I. Du Pont de Nemours & Co. Inc.
General Gasket Inc.
B. F. Goodrich Aviation Products
B. F. Goodrich Industrial Products Co.
Goodyear Tire & Rubber Co., The, Aviation Products Div.
Goshen Rubber Co., Inc.
Greene, Tweed & Co.
Haveg Industries, Inc.
Huntington Rubber Mills
Metaplast Co. Inc.
Newth Rubber Co.
Orchard Industries, Inc., Actionflex Div.
Pacific Moulded Products
Permacel
Products Research Co.
Raybestos-Manhattan, Inc.
Raybestos-Manhattan, Inc., Pa.
Fred T. Roberts & Co.
Rubber Teck Inc.
Rubbercraft Corp. of California
Ray A. Scharer & Co.
Silicones Div.—Union Carbide Corp.

SOLVENTS

***ALLIED CHEMICAL CORP., GENERAL CHEMICAL DIV.**
Allied Research Products, Inc.
Aries Laboratories, Inc.
J. T. Baker Chemical Co.

Carl H. Biggs Co.
Bios Labs., Inc.
Cooper Industries, Inc.
Dow Chemical Co., The
E. I. Du Pont de Nemours & Co. Inc.
Esso Standard Oil Co.
Fisher Scientific Co.
London Chemical Co., Inc.
Maas & Waldstein Co.
Matheson Co., Inc., The
Micro-Circuits Co.
Penetone Co., The
Shell Chemical Corp., Industrial Chemicals Div.
Trio Chemical Works, Inc.
Turco Products, Inc.

SPINNINGS, METAL

Amatom Electronic Hardware Co. Inc.
Associated Engrg. & Mfg. Corp.
Benson Mfg., Co., The
Brighton Corp.
Brooks & Perkins, Inc.
Dresser Industries, Inc.
Elzee Metal Products Co., Inc.
Hufford Corp., The
Jan Hardware Mfg. Co., Inc.
Kaiser Metal Products, Inc.—Fleetwings Div.
C. B. Kaupp & Sons, Inc.
Kling Metal Spinning & Stamping Co.
Lukens Steel Co.
***LYCOMING DIV., AVCO MFG. CORP.**
Superior Spinning & Stamping Co.
Roland Teiner Co., Inc.
United States Chemical Milling Corp.

STEEL, ELECTRIC

Acme-Newport Steel Co.
Allegheny Ludlum Steel Corp.
American Brake Shoe Co.
Armco Steel Corp.
Baker Steel & Tube Co.
Byrne Doors Inc.
Cannon-Muskegon Corp.
Carpenter Steel Co., The
Clark Equipment Co.
Crucible Steel Co. of America
Damascus Tube Co.
Electric Steel Foundry Co.
Firth Sterling Inc.
Lucas Aircraft Supply Co.
Lukens Steel Co.
***MALLORY-SHARON METALS CORP.**
National Forge Co.
Peerless Machine Co.
Perfecto Cast
Precision Shapes, Inc.
Republic Steel Corp.
Joseph T. Ryerson & Son, Inc.
Sharon Steel Corp.
Southwire Co.
U. S. Steel Supply Div., United States Steel Corp.
Vanadium-Alloys Steel Co.

STEEL, STAINLESS

Acme Mfg. & Gasket Co.
All Boro Metal Products Co., Inc.
Allegheny Ludlum Steel Corp.
American Brake Shoe Co.
American Silver Co.
Armco Steel Corp.
***AVCO MFG. CORP., NASHVILLE DIV.**
Baker Steel & Tube Co.
Benson Mfg., Co., The
Bond Metal Surplus Co.
Bram Metallurgical & Chemical Co.
Bridgeport Brass Co.
Byrne Doors Inc.
Cannon-Muskegon Corp.
Carpenter Steel Co., The
Chase Brass & Copper Co., Inc.
Continental Metals, Inc.
Crucible Steel Co. of America
Damascus Tube Co.
Deringer Metallurgical Corp.
Wilbur B. Driver Co.
Duraloy Co., The
Eastern Stainless Steel Corp.
Electric Steel Foundry Co.
George K. Garrett Co., Inc.
Hamilton Watch Co.
Hamilton Watch Co.—Industrial Div.
Hoskins Mfg. Co.
Industrial Acoustics Co., Inc.
Johnston & Funk Titanium Corp.
Jones & Laughlin Steel Corp., Stainless & Strip Div.
Earle M. Jorgensen Co.
Kentucky Metal Products Co.
Charles E. Larson & Sons, Inc.
Lebanon Steel Foundry
Lucas Aircraft Supply Co.
***LYCOMING DIV., AVCO MFG. CORP.**
P. R. Mallory & Co. Inc.
Mercast Mfg. Corp.
Miniature Precision Bearings, Inc.
National Forge Co.
National-Standard Co.
National Tube Div.—United States Steel Corp.
Nesor Alloy Products Co.
Peerless Machine Co.
Perfecto Cast
Precision Shapes, Inc.
Precision Tube Co., Inc.
Republic Steel Corp.
Rodney Metals Inc.
Joseph T. Ryerson & Son, Inc.
Ray A. Scharer & Co.
Sharon Steel Corp.
Somers Brass Co. Inc.
Timken Roller Bearing Co., The
U. S. Steel Supply Div., United States Steel Corp.
Universal-Cyclops Steel Corp.
Vanadium-Alloys Steel Co.
Waimet Alloys Co., Div. Consolidated Foundries & Mfg. Corp.
Wallingford Steel Co.
Washington Steel Corp.
Waukesha Foundry Co.

STRONTIUM

Accurate Specialties Co. Inc.
Barium & Chemicals, Inc.
Bram Metallurgical & Chemical Co.
Delta Chemical Works, Inc.
Matheson Co., Inc., The
United Mineral & Chemical Corp.

TANTALUM

Accurate Specialties Co. Inc.
Alloys Unlimited Inc.
Almac Plastics Inc.
American Nickel Alloy Mfg. Corp.
American Silver Co.
Associated Engrg. & Mfg. Corp.
Belmont Smelting & Refining Works, Inc.
Bram Metallurgical & Chemical Co.
Bridgeport Brass Co.
Damascus Tube Co.
Delta Chemical Works, Inc.
Wilbur B. Driver Co.
Hamilton Watch Co.
Hamilton Watch Co.—Industrial Div.
Haynes Stellite Co., Div.—Union Carbide Corp.
Johnston & Funk Titanium Corp.
Kennametal Inc.
***MALLORY-SHARON METALS CORP.**
Metals & Controls Corp., General Plate Div.
National Research Corp.
F. H. Paul & Stein Brothers, Inc.
Somers Brass Co. Inc.
Union Carbide Metals Co., Div.—Union Carbide Corp.
Universal-Cyclops Steel Corp.

TEFLON

Aero Bolt & Screw Co., Inc.
Aero Gasket Corp.
Allied Plastics Supply Corp.
Amatom Electronic Hardware Co. Inc.
American Printed Circuits Co., Inc.
Aristocrat Plastics, Inc.
Auburn Mfg. Co., The
Auburn Spark Plug Co., Inc.
Bios Labs., Inc.
Bonny Mfg. Corp.
Chemplast, Inc.
Chicago Gasket Co.
Comco Plastics Inc.
Connecticut Hard Rubber Co., The
Continental Diamond Fibre Corp.
Crystal-X Corp.
Delta Products Div.—Air Accessories, Inc.
Dixon Corp.
E. I. Du Pont de Nemours & Co. Inc.
Electrical Insulation Co., Inc.
Emmco Plastic Fabricators—Div.—E. M. McCarthy Machine Co.
Engineered Plastics, Inc.
Fluorocarbon Co., The
Fluorulon Labs., Inc.
Form-It Products, Inc.
Franklin Fibre-Lamitex Corp.
General Gasket Inc.
Greene, Tweed & Co.
Haveg Industries, Inc.
Hitemp Wires Inc.
Huntington Rubber Mills
Illumitronic Engrg. Co.
Joclin Mfg. Co.
Jodee Plastics Co.
Thomas J. Long, Inc.
Mansfield Fabricators Inc.
Maryland Lava Co.
Mica Fabricating Co.
Peerless Machine Co.
Permacel
Polymer Corp., The
Raybestos-Manhattan, Inc.
Raybestos-Manhattan, Inc., Pa.
Reinhold Engrg. & Plastics Co.
Rogers Corp.
Milton Ross Metals Co., The
Sanford Plastics Corp.
Schlegel Mfg. Co.
Staver Co., Inc., The
Thermech Engrg. Corp.
Topper Mfg. Co., Inc.
Tri-Point Plastics Inc.
Turbo Products, Inc.
***WEATHERHEAD CO., THE**
Western International Co.

THORIUM

Accurate Specialties Co. Inc.
***AMERICAN POTASH & CHEMICAL CORP.**
Associated Engrg. & Mfg. Corp.
Belmont Smelting & Refining Works, Inc.
Davison Chemical Co.
Delta Chemical Works, Inc.
Metal Hydrides Inc.
Metals & Controls Corp., General Plate Div.
New Process Metals, Inc.
United Mineral & Chemical Corp.
Westinghouse Electric Corp., Lamp Div.

TIN & ALLOYS

Accurate Specialties Co. Inc.
Allied Research Products, Inc.
Alloys Unlimited Inc.
Alpha Metals, Inc.
American Silver Co.
American Smelting & Refining Co.
Anchor Metal Co. Inc.
J. T. Baker Chemical Co.
Belmont Smelting & Refining Works, Inc.
Bow Solder Products Co., Inc.
Delta Chemical Works, Inc.
National Lead Co.
Nesor Alloy Products Co.
United Mineral & Chemical Corp.

TITANIUM

Accurate Specialties Co. Inc.
Alloys Unlimited Inc.
American Silver Co.
Belmont Smelting & Refining Works, Inc.
Bond Metal Surplus Co.
Bram Metallurgical & Chemical Co.
Bridgeport Brass Co.
Continental Metals, Inc.
Crucible Steel Co. of America
Damascus Tube Co.
Delta Chemical Works, Inc.
Wilbur B. Driver Co.
E. I. Du Pont de Nemours & Co. Inc.
Foote Mineral Co.
Hamilton Watch Co.—Industrial Div.
Harvey Aluminum
Johnston & Funk Titanium Corp.
Kennametal Inc.
***LYCOMING DIV., AVCO MFG. CORP.**
P. R. Mallory & Co. Inc.
***MALLORY-SHARON METALS CORP.**
Matheson Co., Inc., The
Metal Hydrides Inc.
Metals & Controls Corp., General Plate Div.
National Lead Co.
Peerless Machine Co.

TUNGSTEN

Accurate Specialties Co. Inc.
Alloys Unlimited Inc.
American Nickel Alloy Mfg. Corp.
Associated Engrg. & Mfg. Corp.
Belmont Smelting & Refining Works, Inc.
Bram Metallurgical & Chemical Co.
Damascus Tube Co.
Delta Chemical Works, Inc.
Eisler Engrg. Co., Inc.
Electronic Parts Mfg. Co., Inc.
Elmet Div.—North American Philips Co., Inc.
General Electric Co., Lamp Metals & Components Dept.
Johnston & Funk Titanium Corp.
Kennametal Inc.
***MALLORY-SHARON METALS CORP.**
Nesor Alloy Products Co.
Rodney Metals Inc.
Superior Carbon Products, Inc.
Sylvania Electric Products Inc., Chemical & Metallurgical Div.
Union Carbide Metals Co., Div.—Union Carbide Corp.
United Mineral & Chemical Corp.
Universal-Cyclops Steel Corp.
Waimet Alloys Co., Div. Consolidated Foundries & Mfg. Corp.
Westinghouse Electric Corp., Lamp Div.
Westinghouse Electric Corp., Metals Plant

ZINC

Accurate Specialties Co. Inc.
Allied Research Products, Inc.
Alloys Unlimited Inc.
American Nickel Alloy Mfg. Corp.
American Silver Co.
American Smelting & Refining Co.
Anchor Metal Co. Inc.
J. T. Baker Chemical Co.
Belmont Smelting & Refining Works, Inc.
Bond Metal Surplus Co.
Delta Chemical Works, Inc.
Doehler-Jarvis Div., National Lead Co.
Eagle-Picher Co., The
Illinois Zinc Co.
Matheson Co., Inc., The
National Lead Co.
United Mineral & Chemical Corp.

ZIRCONIUM

Alloys Unlimited Inc.
American Nickel Alloy Mfg. Corp.
American Silver Co.
Associated Engrg. & Mfg. Corp.
Belmont Smelting & Refining Works, Inc.
Bram Metallurgical & Chemical Co.
Bridgeport Brass Co.
Damascus Tube Co.
Delta Chemical Works, Inc.
Firth Sterling Inc.
Foote Mineral Co.
Hamilton Watch Co.
Hamilton Watch Co.—Industrial Div.
Harvey Aluminum
Johnston & Funk Titanium Corp.
P. R. Mallory & Co. Inc.
***MALLORY-SHARON METALS CORP.**
Matheson Co., Inc., The
Metal Hydrides Inc.
Metallizing Co. of Los Angeles Inc.
Metals & Controls Corp., General Plate Div.
National Lead Co.
F. H. Paul & Stein Brothers, Inc.
Precision Shapes, Inc.
Roberts Industries Inc.
Rodney Metals Inc.
Somers Brass Co. Inc.
United Mineral & Chemical Corp.
Universal-Cyclops Steel Corp.
Wayne Pump Co., The, Div.-Symington Wayne Corp.
Westinghouse Electric Corp., Metals Plant

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Below are listed over 3,500 companies engaged in the missile business, along with their address, phone number, and key purchasing and sales personnel. Information concerning type of company activity may be determined by the coding at the end of each listing. Codings are explained in the lower right hand corner of every other page. The editors have made every effort to obtain listings for *all* companies active in the missile industry, but in an undertaking such as this, there are bound to be omissions. If we have omitted anyone who should have been included, we are sorry—and hope that our readers will inform us for correction in future editions. Write to: Editor, MISSILE MARKET & PRODUCT GUIDE, American Aviation Publications, 1001 Vermont Ave., N.W., Washington, D.C.

***AC ELECTRONICS DIV., GENERAL MOTORS CORP.**
1925 E. Kenilworth Pl., Milwaukee 1, Wis. (Tel. BR 3-1120)
Purch. Dir.: Jack Briner
Sales & Adv. Mgr.: M. B. Price — **PS, GS, GE, TS**
*(See Page 48 for Advertisement)

ACF INDUSTRIES INC.
750 Third Ave., New York 17, N. Y. (Tel. YUkon 6-8600)
V. P.-Purchases: Philips B. Hoyt
V. P.-Mktg: Henry A. Correa
Purch. Agent (Avion Div.): H. H. Parnell (Tel. COlfax 1-4100, Paramus, N. J.)
Purch. Agent (Erco Plant): P. C. Nill (Tel. WArfield 7-4444, Riverdale, Md.)
Purch. Agent (Reactor Engr.): E. L. Phillips (Tel. TUckerman 2-9650, Washington, D. C.)
Purch. Agent (Albuquerque Plant): H. V. Wood (Tel. CHapel 7-0361, Albuquerque, N. Y.)
Purch. Agent (WKM Div.): N. F. Slay (Tel. 4611, Stafford, Texas)
Acting Purch. Agent (ACF Electronics): W. O. Spriggs (Tel. KIng 8-4400, Alexandria, Va.)
Dir.-Purch. (Carter Cars Div.): D. G. Teasdale (Tel. JEfferson 1-2950, St. Louis, Mo.)
MF, WN, GS, GH, GE, CO, TS, TR, R&D

A'G'A DIV., ELASTIC STOP NUT CORP. OF AMERICA
1027 Newark Ave., Elizabeth 3, N. J. (Tel. ELizabeth 2-2900)
Purch. Agent: R. E. Joubert
Sales Mgr.: W. A. Feitner

AMP INC.
Eisenhower Blvd., Harrisburg, Pa. (Tel. JOrdan 4-0101)
Dir.-Purch: George A. Beck
V. P.-Sales: G. Earle Walker
MF, GS, GE, CO, TS, TR

A. O. W. CORP.
450 N. 9th St., Elwood, Ind. (Tel. FEderal 2-3346)
Purch. Agent & Prod. Mgr.: Roy M. Riske
Gen. Sales Mgr.: Ted Nemes

A&P METAL PRODUCTS MFG. CORP.
111 Bloomingdale Rd., Hicksville, L. I., N. Y. (Tel. WElls 1-1575)
Purch. Agent: L. J. Wepy — **GS, GH**

A. P. M. CORP.
252 Hawthorne Ave., Yonkers 5, N. Y. (Tel. YOnkers 8-2010)
Purch. Agent: Clay Brandt
Sales Mgr.: Riva Solins — **MF, GS, GH, MM**
Pres.-Sales: Michael C. Presnick

A. P. W. CO.
72 W. Main St., Rockaway, N. J. (Tel. OAkwood 7-0643)
Purch. & Sales: Arthur Pfeil
Sales Repres.: Henry J. Abbott — **GE, TS**

ABALON PRECISION MFG. CORP.
540 Casanova St., New York 59, N. Y. (Tel. LUdlow 9-5682)
Purch. Agent: Lon Orent — **GE**

ABBOTT SCREW & MFG. CO.
1728 W. Walnut St., Chicago 12, Ill. (Tel. CHesapeake 3-3500)
Purch. Agent: Joseph H. Spiegel
V. P.-Sales: Max Cordell — **MF, WN, PS, GH, MM**

ABESTO CORP.
49 Ackerman St., Bloomfield, N. J. (Tel. ED 8-6814)
R. W. Krumscheid — **MM**

ABRAMS INSTRUMENT CORP.
606 E. Shiawassee St., Lansing 1, Mich. (Tel. IVanhoe 4-9441)
Purch. Agent: C. E. Adams
Asst. Purch. Agent: E. Conner
V. P.-Sales: C. J. Arksey
PS, GS, GH, GE, CO, TS, TR

ABRASIVE DRESSING TOOL CO.
14528 Second Blvd., Detroit 3, Mich. (Tel. TOwnsend 8-6000)
Pres.: Jerry Krandall
Sales Mgr.: R. C. McCullough — **MM**

ACCESSORY CONTROLS & EQUIPMENT CORP.
805 Bloomfield Ave., Windsor, Conn. (Tel. MUrdock 8-4986)
Purch. Agent: C. A. Putini
V. P.-Engrg.-Sales: John J. Kardys
MF, WN, PS, GS, GH, TS

ACCESSORY PRODUCTS CO., DIV.-TEXTRON INC.
616 W. Whittier Blvd., Whittier, Calif. (Tel. OXbow 3-3747)
Purch. Agent: Jerry Hudson
Sales Mgr.: O. A. Cordes
WN, PS, GS, GH, CO, R&D

ACCO EQUIPMENT DIV., AMERICAN CHAIN & CABLE CO., INC.
1110 E. Princess St., York, Pa. (Tel. 7313)
Purch. Agent: W. E. Speck
Buyers: N. A. Husson & P. I. Polt
Sales Mgr.: E. C. Mabbs — **GS, GH, MM**

ACCURATE ELECTRONICS CORP., Dept. D
169 S. Abbe Rd., Elyria, O. (Tel. EMerson 6-7925)
Pres.: J. F. Seybold
Plt. Engr.: T. J. Lakocy — **GE**

ACCURATE INSTRUMENT CO.
2422 Branard St., Houston, Texas (Tel. JAckson 3-2712)
Treas.: E. E. Hopf
V. P.-Sales: J. G. Sears — **GE, TR**

ACCURATE MFG. CO.
Hepworth Place, Garfield, N. J. (Tel. GRegory 3-2900)
Pres.: V. A. DeMattia
Dir.-Sales: A. W. Rista

ACCURATE SPECIALTIES CO. INC.
37-11 57th St., Woodside, N. Y. (Tel. TWining 9-5757)
Purch. Agent: Lawrence Diamond
Asst. Purch. Agent: Irving M. Solotoff
Buyer: Robert MacIsaac
Sales Mgr.: Nathan Zimmer — **MM**

ACE COIL & ELECTRONICS CO.
917 Lincoln Hwy., Metuchen, N. J. (Tel. LIberty 8-3580)
Purch. Agent: A. D. Meyer
Buyer: I. M. MacDonald
Sales Mgr.: Fred Sampson — **GE, CO, TS, TR**

ACE DRILL BUSHING CO. INC.
5407 Fountain Ave., Los Angeles 29, Calif. (Tel. HO 9-8253)
V. P.-Mfg.: George Clement
V. P.-Sales: George T. Smith — **PS**

ACE ELECTRONICS ASSOCIATES, INC.
99 Dover St., Somerville 44, Mass. (Tel. SOmerset 6-5130)
Purch. Agent: Dick Mizzoni
Sales Admin.: John J. Kennedy
Sales Mgr.: George Berman — **GE, R&D**

ACE ENGRG. & MACHINE CO., INC.
Tomlinson Rd., Huntingdon Valley, Pa. (Tel. WIlson 7-1900)
Purch. Agent: Charles E. Kienzle
Sales Mgr.: Charles C. Borden

ACE PRODUCTS CO.
1820 N. 12th. S., P. O. Box 784, Toledo 1, O. (Tel. CHerry 3-6513)
Purch. Mgr.: Emory A. Fall

ACE SPRING MFG. CO., INC.
148 32nd St., Brooklyn 32, N. Y. (Tel. Sterling 8-0100)

ACHESON COLLOIDS CO., DIV.-ACHESON INDUSTRIES, INC.
1952 Washington Ave., Port Huron, Mich. (Tel. YUkon 4-4171)
Sales Mgr.: Arthur T. Olsson
Purch. Agent: Lester H. Miller — **MM**

***ACK RADIO SUPPLY CO.**
3104 4th Ave. South, Birmingham 5, Ala. (Tel. FA 2-0588)
Pres.: E. C. Atkerson
Gen. Mgr.: William F. Harmon
Sales Mgr.: Edwin W. Thomas
*(See Page 66 for Advertisement)

ACKERMAN ENGRAVERS, INC.
458 Broadway, New York 13, N. Y. (Tel. BArclay 7-1479)
Pres.: Bernard Strianese
Gen. Mgr.: Michael Strianese — **GE, CO, TS, R&D**

ACKERMAN JOHNSON CO.
625 W. Jackson Blvd., Chicago 6, Ill. (Tel. RAndolph 6-2816)

ACME BRASS FOUNDRY CO. OF SAN ANTONIO, INC.
716 Wyoming St., San Antonio 3, Texas (Tel. CApitol 7-4601)
Gen. Mgr.: Steve Margozewitz
Sales Mgr.: Mrs. Agnes M. Mahula

ACME ELECTRIC CORP.
20 Water St., Cuba, N. Y. (Tel. Cuba 4)
Dir.-Purch.: A. J. Rudy
Dir.-Sales: J. D. Hall — **GE, TS, R&D**

ACME INDUSTRIAL CO.
200-222 N. Laflin St., Chicago 7, Ill. (Tel. MOnroe 6-4122)
Purch. Agent: Ronald Farrell
V. P.-Sales: Warner T. Bracken
MF, PS, GS, GE, CO, TS

ACME MFG. & GASKET CO.
738-40 N. 41st St., Philadelphia 4, Pa. (Tel. EVergreen 6-8622)
Gen. Mgr.: Harry E. Wagenseller — **MF, PS**

ACME WIRE CO.
1253 Dixwell Ave., New Haven 14, Conn. (Tel. LO 2-2171)
Purch. Agent: Walter Rausch
Asst. Purch. Agent: Robert Kowalchell
Pres.: H. A. Bassett — **MM**

ACME-NEWPORT STEEL CO.
9th & Lowell Sts., Newport, Ky. (Tel. COlonial 1-5620)
Dir.-Purch.: H. M. Baker
V. P.-Sales: C. M. Riefkin — **MM**

ACORN BEARING CO.
66 Stanley, New Britain, Conn. (Tel. BA 9-0839)
Dir.-Sales: D. E. Malone

ACORN TOOL & MFG., INC.
York & John Sts., Cincinnati 14, Ohio (Tel. CHerry 1-2330)
V. P.: Ed Stern
Sales: Ed Krabacher — **MF, WN, PS**

ACOUSTICA ASSOCIATES, INC.
26 Windsor Ave., Mineola, N. Y. (Tel. PIoneer

CODING

Missile Frame	MF
Warhead & Nose Cone	WN
Propulsion System	PS
Ground Support	GS
Ground Handling	GH
Guidance Equipment	GE
Checkout Equipment	CO
Test Equipment	TS
Tracking & Telemetering	TR
Research & Development	R&D
Materials & Metals	MM

7-7900)
Purch. Agent: Arthur Baumach
V. P.-Sales: Ralph Reynolds
PS, GS, GH, GE, CO, TS, TR

ACRO DIV., ROBERTSHAW-FULTON CONTROLS
2040 E. Main St., Columbus 16, O. (Tel. CL 3-8531)
Purch. Agent: A. Lafferty
Mktg. Mgr.: M. S. Feltz

ACROMAG INC.
22519 Telegraph Rd., Detroit 41, Mich. (Tel. ELgin 6-7211)
Purch. Agent: Robert G. Hennings
V. P.-Sales: T. N. Jones **GE, CO, TS, TR, R&D**

ACROMARK CO., THE
445 Morrell St., Elizabeth 4, N. J. (Tel. ELizabeth 2-6500)
Purch. Agent: M. A. Palmiere
Gen. Sales Mgr.: W. R. Heine, Jr.

ACTON LABORATORIES INC.
533 Main St., Acton, Mass. (Tel. COlonial 3-7756)
Prod. Mgr.: Richard Hall
Sales Mgr.: Leroy C. Bower, Jr. **GE, TS, TR, R&D**

ACTUATION RESEARCH CORP.
416 N. Glendale Ave., Glendale 6, Calif. (Tel. CHapman 5-6866)
Mat. Coordinator: B. G. Mueller
Sales Mgr.: E. H. Mitchell **GS, R&D**

ACTUATOR PRODUCTS DIV., GEARTRONICS CORP.
10 Nashua St., Woburn, Mass. (Tel. WEIls 3-1400)
Purch. Agent: Albert N. Galante
Sales Mgr.: John H. Lyman
MF, GS, GH, GE, CO, TS, TR

ADAM METAL SUPPLY INC.
4-63 48th Ave., Long Island City 1, N. Y. (Tel. STillwell 6-7737)
V. P.-Purch.: Jules Brody
Sales Mgr.: Al Bernard **MM**

R. P. ADAMS CO., INC.
Dept. M & R, Box 145, Kenmore Branch, Buffalo 17, N. Y. (Tel. VIctorie 2608)
Purch. Agent: T. J. Wintermute
Gen. Sales Mgr.: L. M. Rawlings

ADAMS RITE MFG. CO.
540 W. Chevy Chase Dr., Glendale 4, Calif. (Tel. CHapman 5-1096)
Dir.-Purch.: J. Rocca
Dir.-Dev. & Chief Sales Engr.: Donnell Grizzard **GS**

ADEL PRECISION PRODUCTS, DIV.-GENERAL METALS CORP.
1444 Washington Ave., Huntington, W. Va. (Tel. JA 2-7345)
Purch. Agent: D. V. Reynolds
Sales Mgr.: H. G. Shy **MF, GS, GH, TS**

ADEL PRECISION PRODUCTS OF CALIF., DIV.-GENERAL METALS CORP.
10777 Vanowen St., Burbank, Calif. (Tel. STanley 7-2611)
Purch. Agent: A. Haines
Gen. Mgr.: L. P. Wansink **GS, GE**

ADEPT INDUSTRIES INC.
1636 W. Hunting Park Ave., Philadelphia 40, Pa. (Tel. DAvenport 4-6800)
Purch. Agent: Sidney Whitman
Sales: John F. Sohl
MF, WN, PS, GS, GE, CO, TS, TR

ADHESIVE ENGRG. DIV.-HILLER AIRCRAFT CORP.
1411 Industrial Rd., San Carlos, Calif. (Tel. LYtell 1-2686)
Purch. Agent: W. E. Schneider
V. P.-Sales: John L. Morrill **MF, MM, R&D**

ADLER ELECTRONICS, INC.
1 Le Fevre Lane, New Rochelle, N. Y. (Tel. NE 6-1620)
Purch. Agent: Eugene Laks
V. P.-Sales: Alfred Strogoff **GS, CO, TS, TR, R&D**

ADVANCE CARBON & ELECTRIC MFG. CO.
2505 Mariposa St., San Francisco 10, Calif. (Tel. HEmlock 1-4034)
Dir.-Purch.: Boyd Bithell
Sales Mgr.: W. J. Crader **GE, CO, TS, TR, MM, R&D**

ADVANCE GEAR & MACHINE CORP.
5851 Holmes Ave., Los Angeles 1, Calif. (Tel. LUdlow 7-8103)
Purch. Agent: Stan Jackson
Sales Mgr.: Raymond L. Seitz **PS, GE, TS, TR**

ADVANCE RELAYS, ELECTRONICS DIV., ELGIN NATIONAL WATCH CO.
2435 N. Naomi St., Burbank, Calif. (Tel. VI 9-1446)
Purch. Agent: J. Shrieber
Natl. Sales Mgr.: Gene Straube
GS, GH, GE, CO, TS, TR

ADVANCED ELECTRONICS, INC.
94 Siles Deane Hwy., Rocky Hill, Conn. (Tel. JAckson 9-6881)
Purch.: Alfred Dinunzio
Sales: Sam Friedman **MF, PS, GS, GH, GE, CO, TS**

ADVANCED ELECTRONICS MFG. CORP.
2116 S. Sepulveda Blvd., Los Angeles 25, Calif. (Tel. GRanite 8-9220)
Pres.: David Rutland
V. P.-Sales: B. F. Ambrosio **GS**

ADVANCED PRODUCTS CO., THE
59 Broadway, North Haven, Conn. (Tel. CEdar 9-1664)
Treas.: Arthur Hostage
MF, WN, PS, GS, GH, GE, CO, TS, TR

AD-YU ELECTRONICS LAB., INC.
249 Terhune Ave., Passaic, N. J. (Tel. GRegory 2-5622)
Purch. Agent: N. Slinger **TS, R&D**

AER, INC.
871 E. Washington St., Pasadena, Calif. (Tel. SY 4-9725)
Dir.-Purch.: L. E. Pritchard
Dir.-Res.: Dr. A. J.A. Morgan **R&D**

AERO BOLT & SCREW CO., INC.
25 W. Hartsdale Ave., Hartsdale, N. Y. (Tel. ROckwell 1-0210)
Purch. Agent: F. DiBiase
Sales Mgr.: A. Oliver

AERO ELECTRONICS CORP.
1657 W. 134th St., Gardena, Calif. (Tel. FAculty 1-2196)
Gen. Mgr.: Stephen E. Taylor
Chief Engr.: James X. Green
Prod. Mgr.: Gracia Green **TR**

AERO GASKET CORP.
763 Hanover Rd., Meriden, Conn. (Tel. BEverly 5-3361)
Dir.-Purch.: Rhoda Hurwitz
Dir.-Sales: Raymond C. Schmitt **PS**

AERO INSTRUMENT CO.
11423 Vanowen St., North Hollywood, Calif. (Tel. STanley 7-5433)
Pres.: T. O. Cox
Asst. Secy.: Mrs. L. Hough

AERO INSTRUMENT CO., INC.
5105 Denison Ave., Cleveland 2, O. (Tel. WOodbine 1-5574)
Gen. Mgr.: Emil Daiber **GE**

AERO LEATHER PRODUCTS CO.
1740 W. 59th St., Los Angeles 47, Calif. (Tel. PLeasant 3-1461)
V. P.-Purch.: C. E. Seymour
Gen. Sales Mgr.: W. E. Seymour **MF, PS, GE, TR**

AERO RESEARCH INSTRUMENT CO. INC.
315 N. Aberdeen St., Chicago 7, Ill. (Tel. TAylor 9-6400)
Purch. Agent: D. Bernstein
Gen. Mgr.-Sales: Arthur Anderson **TS, TR, R&D**

AERO SUPPLY MFG. INC.
611 W. Main St., Corry, Pa. (Tel. 2-8261)
Purch. Agent: P. E. Dwyer
Buyer: Dean Houser
V. P.-Sales & Engrg.: E. F. Pain
MF, WN, PS, GS, GH, GE, CO, TS, R&D

AEROCHEM RESEARCH LABS., INC.
P. O. Box 12, Princeton, N. J. (Tel. WAlnut 1-7070)
Gen. Mgr.: George R. Bent, II **R&D**

AERODEX, INC.
P. O. Box 123 (Airport Br.), Miami 48, Fla. (Tel. TUxedo 5-2411)
Purch. Agent: A. Van Wagner
Buyer: Ralph LaPerche
Sales & Serv. Mgr.: Hermann Weker, Jr. **MM**

AEROFLEX CORP., THE, AEROFLEX LABS. DIV.
34-06 Skillman St., Long Island City 1, N. Y. (Tel. STillwell 4-7000)
V. P.-Sales: R. G. Sanders **MF, GS, GE, TS, TR**

AEROIL PRODUCTS CO., INC.
69 Wesley St., South Hackensack, N. J. (Tel. DIamond 3-5200)
Sales Dir.: M. M. Yarrington

AEROJET-GENERAL CORP.
6352 N. Irwindale Ave., Azusa, Calif. (Tel. CUmberland 3-6111)
Purch. Agent: John Rath
WN, PS, GS, GE, CO, TS, R&D

AEROLAB DEVELOPMENT CO.
330 W. Holly St., Arcadia, Calif. (Tel. SYcamore 3-1184)
Works Mgr.: A. C. MacMillan
Purch. Agent: A. Grenon
Sales & Contracts Mgr.: J. W. Reed
MF, PS, GS, GE, R&D

AEROLITE ELECTRONICS CORP.
2207 Summit Ave., Union City, N. J. (Tel. UNion 3-2955)
Purch. Agent: V. G. Matto
MF, WN, PS, GS, GH, GE, CO, TS, TR

AERONAUTICAL & INSTRUMENT DIV., ROBERTSHAW-FULTON CONTROLS CO.
Santa Ana Freeway at Euclid Ave., Anaheim, Calif. (Tel. KEystone 5-8151)
Purch. Agent: L. L. Moloney
Asst. Purch. Agent: W. Houseworth
Buyers: W. Hamilton & J. Krause
Mgr.-Field Engrg. & Sales: R. H. Heller **GS, CO**

AERONCA MFG. CORP.
1712 Germantown Rd., Middletown, O. (Tel. GArden 2-2751)
Dir.-Purch.: R. M. Paul
Dir.-Material Negotiation Section: Thomas Brunjes
V.P.-Tech. Services Div.: Ray F. Hermes **MF, GS**

AERONCA MFG. CORP.-BALTIMORE FACILITY
Hilltop & Frederick Rds., Baltimore 29, Md. (Tel. RIdgeway 7-0200)
Purch. Agent: G. M. Swesey
Dir.-Sales: J. W. Colleran **GS, CO, R&D**

AERONUTRONIC SYSTEMS, INC., SUB.-FORD MOTOR CO.
Ford Rd., Newport Beach, Calif. (Tel. ORiole 3-2520)
Mgr.-Purch.: C. D. Graef
Purch. Agent, Computer Div.: Gregory S. Cadice
Dir.-Mktg., Computer Div.: S. D. Wanlass
Dir.-Mktg., Space Tech.: C. G. Gant
Dir.-Mktg., Range Systems: J. R. Ambrose
MF, WN, PS, TS, TR, MM, R&D

AEROPRODUCTS OPERATIONS, ALLISON DIV., GENERAL MOTORS CORP.
Municipal Airport, Dayton, O. (Tel. TWinoaks 8-4661)
Mgr.-Purch.: J. E. Baird
Asst. Purch. Agent: W. S. Neff
Purch. Parts Buyer: F. A. White
Mgr.-Sales, Serv. & Contracts: C. E. Dixon
WN, PS, GS, GE, TS

AEROQUIP CORP., JACKSON DIV.
300 S. East Ave., Jackson, Mich. (Tel. STate 2-0361)
Purch. Mgr.: Lewis A. Greene
Gen. Sales Mgr.: F. W. Schwier
MF, PS, GS, GH, GE

AEROSCIENCE, INC.
3155 N. Rosemead Blvd., Rosemead, Calif. (Tel. ATlantic 0-2112)
Purch. Agent: S. R. Young
Dir.-Sales: T. M. Morrow **PS, GH, TS, R&D**

AEROTEC CORP., THE
Pemberwyck Rd., Greenwich, Conn. (Tel. JEfferson 1-8400)
Dir.-Planning & Procurement: Harold Anderson
Sales Mgr.: Thomas Walker
MF, WN, PS, GS, GH, GE

AEROTEST LABORATORIES, INC.
129-11 18th Ave., College Point 56, N. Y. (Tel. INdependence 1-7272)
Purch. Agent: S. Liebfreund
Sales Mgr.: L. Permut **CO, TS**

AEROVOX CORP.
740 Belleville Ave., New Bedford, Mass. (Tel. WYman 4-9661)
Purch. Agent: Robert Crabbe
Buyers: Edward Hickey, John Warren, Fred Graeben, Joe Desjarins
V. P.-Sales: Frank Marshall **GE**

AETNA ELECTRONICS CORP.
Readington Rd., North Branch, N. J.
Purch. Agent: Robert McDonald
Dir.-Sales: Henry J. Buser, Jr. **TS**

AINSLIE CORP.
312 Quincy Ave., Quincy 69, Mass. (Tel. GRanite 2-8747)
Purch. Agent: L. D. Ainslie
Sales: H. W. Ainslie
MF, PS, GS, GE, CO, TS, TR

AIR FILTER CORP.
4554 W. Woolworth Ave., Milwaukee 18, Wis. (Tel. FLagstone 3-5800)
V.P.-Purch.: R. J. Breckheimer
Sales: Rodger J. Clark **GS, GH**

AIR FRAME INSPECTION INC.
10801 Sessler St., South Gate, Calif. (Tel. TOpaz 1-6733)
Dir.-Sales: B. H. Smith **TS**

AIR LOGISTICS CORP.
3600 E. Foothill Blvd., Pasadena, Calif. (Tel. SYcamore 6-7191)
Mgr.-Materiel: G. A. Tietz
Chief Purch. Agent: C. J. Wilson
Supvr.-Buyers: M. F. Hientz
V. P.-Engrg. & Customer Relations: C. J. Breitwieser **GS, GH, CO**

AIR PRODUCTS, INC.
Allentown, Pa. (Tel. Express 5-3311)
Gen. Purch. Mgr.: F. B. Drake
Purch. Agent: A. Wilson
Gen. Sales Mgr.: D. E. Cummings **PS, GS, GH**

AIR REDUCTION SALES CO., DIV.-AIR REDUCTION CO., INC.
150 E. 42nd St., New York 17, N. Y. (Tel. MUrray Hill 2-6700)
Gen. Purch. Agent: R. N. Chapin
Asst. Adv. & Sales Prom. Mgr.: William C. Bettes **MF, PS, GS**

AIR SPEED TOOL CO.
1502 W. Slauson Ave., Los Angeles 47, Calif. (Tel. PLeasant 2-8340)
Gen. Mgr.: H. J. Thiessen
Asst. Gen. Mgr.: R. G. Zimmerman
Purch.: H. L. Johnson **PS, GS, TS**

AIRATERRA
620 Paula Ave., Glendale 1, Calif. (Tel. CHapman 5-1196)
Purch. Agent: Jack Schroeder
V. P.-Sales: Don Butler **GS, GH, TS, R&D**

AIRBORNE ACCESSORIES CORP.
1414 Chestnut Ave., Hillside 5, N. J. (Tel. MU 8-0250)
Purch. Agent: P. Marantz
Pres. & Gen. Mgr.: W. Cortlyn Rhodes **MF, WN, GS, GH**

AIRBORNE INSTRUMENTS LAB., DIV.-CUTLER-HAMMER, INC.
1345 New York Ave., Huntington Station, N. Y. (Tel. MYrtle 2-6100)
Dir.-Procurement: George Hansen
Dir.-Mktg.: M. J. Rowe **GS, CO, TS, R&D**

AIRBORNE RESEARCH & DEVELOPMENT CORP.
7530 San Fernando Rd., Sun Valley, Calif. (Tel. STanley 7-9647)
Purch. Agent: Neil Boren
Sales Mgr.: Richard B. Blythe **MF, WN, PS, GS**

AIRCOM INC.
354 Main St., Winthrop, Mass. (Tel. OCean 3-3096)
Chief Engr.: Robert A. Rivers
Sales Mgr.: Edward J. Stack **TR, R&D**

AIRCOM INC. OF NEW JERSEY
139 E. First Ave., Roselle, N. J. (Tel. CHestnut 5-2990)
Asst. Purch. Agent: D. Nadel
V. P.-Sales: R. LeNoble **GE, CO, TR**

AIRCRAFT ARMAMENTS, INC.
Cockeysville, Md. (Tel. VAlley 5-8400)
Chief-Procurement: Blaine M. Swartz
V. P.-Sales: Robert B. Chapman, III. **WN, GS, GH, CO, TR, R&D**

AIRCRAFT COMPONENTS, INC.
755 Woodland Ave., Twin Cities Airport, Benton Harbor, Mich. (Tel. WAlnut 5-8861)
Pres.: C. O. Zollar
Sales Mgr.: C. R. Raines
Asst. Sales Mgr.: R. E. Green

AIRCRAFT CONTROLS CO., DIV., GORN ELECTRIC CO., INC.
845 Main St., Stamford, Conn. (Tel. FIreside 8-7591)
Purch. Agent: A. J. Saraceno
Mgr.-Sales Engrg.: A. H. Morgan

AIRCRAFT EQUIPMENT DIV.-CONSOLIDATED DIESEL ELECTRIC CORP.
880 Canal St., Stamford, Conn. (Tel. DAvis 5-2261)
Dir.-Opns.: J. F. Campbell
Purch. Agent: J. Kistner
Chief, Quotations: C. Ziehl
V. P.-Sales: Gerald Rosenberg **PS, GS, GH**

AIRCRAFT EQUIPMENT TESTING CO., INC.
1812 Fleet St., Baltimore 31, Md. (Tel. ORleans 5-8337)
Pres.: Harry P. Kupiec **TS, R&D**

AIRCRAFT FITTING CO., THE
701 N. Federal Hwy., Dania, Fla. (Tel. WAbash 3-2331)
Dir.-Purch.: Paul Hummel
Sales Mgr.: H. P. Barger **MF, PS, GS**

AIRCRAFT MECHANICS, INC.
3200 N. Nevada Ave., Colorado Springs, Colo. (Tel. MElrose 2-7687)
V. P.: Edwin Aro
Buyer: A. S. McCann **MF, GS, GH**

AIRCRAFT POROUS MEDIA, INC.
30 Sea Cliff Ave., Glen Cove, N. Y. (Tel. ORiole 1-4000)
Purch. Agent: N. Friedman
Sales Mgr.: J. A. Whitwell **GS, GH, GE, CO, TS**

AIRCRAFT PRECISION PRODUCTS, INC.
8720 North End Ave., Oak Park 37, Mich. (Tel. JOrdan 4-5830)
Purch. Agent: W. W. Henderson, Jr. **PS, R&D**

AIRCRAFT PRODUCTS DIV.-CLINE ELECTRIC MFG. CO.
3405 W. 47th St., Chicago, Ill. (Tel. CLiffside 4-7500)
Production Mgr.: Harold Hicks **GS, GH**

AIRCRAFT TOOLS, INC.
9030 Bellanca Ave., Los Angeles, Calif. (Tel. OR 8-3432)
Purch. Agent: William Avey
Asst. Purch. Agent: Paul Dowd
Buyer: D. Jackson
V. P.-Sales: H. W. Dellett **MF, GS, GH**

AIRDESIGN CORP.
241 Fairfield Ave., Upper Darby, Pa. (Tel. GRanite 4-8000)
Purch. Agent: James LaBelle
Sales Mgr.: Mervin I. Beard **GS, GE**

AIRDROME PARTS CO.
922 W. Hyde Park Blvd., Inglewood 3, Calif. (Tel. ORegon 8-7133)
Purch. & Prod. Mgr.: Harold D. Stout
Sales Mgr.: Walter J. Parker **MF, GS, GH, TS, R&D**

AIRECO, INC.
2323 Second Ave. Carman, Schenectady, N. Y. (Tel. EL 5-6545)
Secy.: F. DiGennaro
Pres.: H. Levine **TS**

***AIRESEARCH MFG. OF ARIZONA**
402 S. 36th St., Phoenix, Ariz. (Tel. BRidge 5-6311)
Dir.-Purch.: Leslie Rhuart
Sales Mgr.: Stan Whittaker **PS, GS**
*(See Page 43 for Advertisement)

***AIRESEARCH MFG. CO. DIV., THE GARRETT CORP.**
9851 Sepulveda Blvd., Los Angeles 45, Calif. (Tel. SP 6-1010)
Purch. Agent: B. Schindler
Sales Mgr.: P. M. Bartlett **MF, PS, GS, GH, GE, CO, R&D**
*(See Page 43 for Advertisement)

AIRFLYTE ELECTRONICS CO.
535 Ave. A, Bayonne, N. J. (Tel. HEmlock 6-2230)
Purch. Agent: Ben Novy
Buyer: D. Pintauro
Sales Dir.: Milton Feinman **GS, GE, TR**

AIRGUIDE INSTRUMENT CO.
2210 Wabansia Ave., Chicago 47, Ill. (Tel. HUmboldt 6-3000)
V. P.-Sales: Fred D. Eckert

AIR-MARINE MOTORS, INC.
369 Bayview Ave., Amityville, N. Y. (Tel. AMityville 4-3700)
Purch. Agent: Paul Harrington
Sales Mgr.: David H. Thomas
Sales Mgr. (E/C Div.): William Sly **GS, GE, R&D**

AIR-MAZE CORP.
25000 Miles Rd., Cleveland 28, O. (Tel. MOntrose 2-8000)
Dir.-Purch.: James Carson
Sales Mgr.: John M. Clem **PS, GS, GH**

AIRPAX ELECTRONICS INC., SEMINOLE DIV.
Fort Lauderdale, Fla. (Tel. LUdlow 3-6160)
Purch. Agent: R. Dondelinger
Gen. Sales Mgr.: J. Sullivan **GS, TS, TR, R&D**

AIRTEMP DIV., CHRYSLER CORP.
1610 Webster St., Dayton 1, Ohio (Tel. BAldwin 3-2141)
Purch. Agent: H. M. Coy
Purch. Supvr.: C. L. Buck **GS**

AIRTRON INC. DIV.-LITTON INDUSTRIES
200 E. Hanover Ave., Morris Plains, N. J. (Tel. JEfferson 9-5500)
Dir. Purch.: H. Corrin
Sales Mgr.: J. Roveto **GS, GE, TR**

AIRTRONICS INTERNATIONAL CORP.
6900 W. Rd. 84, P. O. Box 8576, Ft. Lauderdale, Fla. (Tel. LUdlow 3-4541)
Purch. Agent: Paul Best
Pres.: Robert G. Kramer **GS**

AIRWORK CORP.
5245 N. W. 36th St., Miami Springs, Fla. (Tel. TUxedo 8-3467)
Connector Sales: R. R. Read **PS, GS, GE**

AKRON BRASS MFG. CO., INC.
Wooster, Ohio (Tel. HOward 2-0070)
Purch. Agent: F. B. Watson
V. P.-Sales: Herold Strain

ALAC, INC.
365 W. Arden St., Glendale, Calif. (Tel. CHapman 5-3787)
Sales Mgr.: Milton Terkle

ALAD ALUMINUM LADDER CORP.
7260 Melrose Ave., Los Angeles 46, Calif. (Tel. WEbster 4-5000)
Gen. Sales Mgr.: F. A. von Baum **GH, GS**

ALADDIN ELECTRONICS, DIV.-ALADDIN INDUSTRIES INC.
705 Murfreesboro Rd., Nashville 10, Tenn. (Tel. CH 2-3411)
Prod. Control Mgr.: F. G. Bassler
Purch. Agent: William B. Patterson
V. P. & Gen. Mgr.-Sales: W. W. Stiffler **GE, CO, TS, TR, R&D**

ALBANO CO. INC.
549-555 W. 54th St., New York, N. Y. (Tel. PLaza 7-5888)

ALBION INDUSTRIES, INC.
816 N. Clark St., Albion, Mich. (Tel. NAtional 9-3965)
Purch. Agent: C. W. Burns
Gen. Mgr.: J. F. Karmalski

ALCAR INSTRUMENTS, INC.
17 Industrial Ave., Little Ferry, N. J. (Tel. HUbbard 9-3040)
V. P.-Purch.: Louis R. Jeffrey, Jr. **PS, GS, GH, GE, CO, TS, TR**

ALCO PRODUCTS, INC.
P. O. Box 1065, Schenectady 1, N. Y. (Tel. FRanklin 7-3311)
Dir.-Procurement: E. J. Van Valkenburgh
Sales Mgr., Nuclear & Defense Products: A. T. Lawrence **PS, GH, MM, R&D**

ALCO VALVE CO.
865 Kingsland Ave., St. Louis 5, Mo. (Tel. PArkview 5-2460)
Proc. Dir.: W. F. Helfrich
Buyers: Wm. C. Calvin & Jack DeCormier
Mgr.-Aircraft Sales: W. F. Lochmoeller **MF, PS, GS**

ALDEN PRODUCTS CO.
154 N. Main St., Brockton, Mass. (Tel. JUniper 3-0160)
Purch. Agent: A. E. Illsley
Sales Mgr.: N. W. Hearn **MF, PS, GS, GH, GE, CO, TS, TR**

ALECTRIC MFG. CO.
7842 39th Ave., Kenosha, Wisc. (Tel. OLympic 7-3248)
Owner: J. B. Winther
Plant Mgr.: V. Zens **TS**

ALFAX PAPER & ENGRG. CO.
Washington St., Westboro, Mass. (Tel. FOrest 6-4467)
Chief Engr.-Purch.: E. D. Cross
Plant Mgr.-Sales: S. C. Sviokla **TR**

AL-FIN DIV., FAIRCHILD ENGINE & AIRPLANE CORP.
Commack Rd., Deer Park, L. I., N. Y. (Tel. DEer Park 2-7211)
Chief Engr.: R. E. Seal
Sales: H. W. Crusey **MF**

ALFORD MFG. CO.
299 Atlantic Ave., Boston, Mass. (Tel. HAncock 6-2150)
Purch. Agent: Robert O'Brien
Sr. Engr.-Sales: Harold H. Leach **TS**

ALFRED ELECTRONICS
897 Commercial St., Palo Alto, Calif. (Tel. DAvenport 6-6496)
Purch.: Al Jew
Sales Mgr.: Paul N. Fulton **GE, CO, TS, TR**

ALL AMERICAN ENGRG. CO.
Box 1247, Wilmington, Del. (Tel. WYman 4-0951)
Purch. Agent: John F. Stocki
Head, Military Proj.: Chuck J. Daniels
Head, Comm. Proj.: Edwin B. Pierce **GS, GH, R&D**

ALL AMERICAN TOOL & MFG. CO.
8027 Lawndale Ave., Skokie, Ill. (Tel. ORchard

CODING

Missile Frame	MF
Warhead & Nose Cone	WN
Propulsion System	PS
Ground Support	GS
Ground Handling	GH
Guidance Equipment	GE
Checkout Equipment	CO
Test Equipment	TS
Tracking & Telemetering	TR
Research & Development	R&D
Materials & Metals	MM

3-7084)
Gen. Mgr.-Purch.: S. K. Hein
Chief Engr.-Purch. & Sales: Robert O. Hein TS

ALL BORO METAL PRODUCTS CO., INC.
610 Fenimore Rd., Mamaroneck, N. Y. (Tel. OWens 8-0104)
V. P.-Purch.: H. B. Maxwell
Purch.: J. J. Schnapp & H. M. Sterling MF, PS, GH

ALL PRODUCTS CO.
P. O. Box 110, Mineral Wells, Tex. (Tel. FAirfax 5-3301)
Purch. Agent: Harry Opanowitz GS, TR, R&D

ALL SPECS CORP.
145 Paterson Ave., Wallington, N. J. (Tel. GR 1-4700)
Pres.: H. London
V. P.-Purch.: H. Mohrwinkel
MF, WN, PS, GS, GH, GE, R&D

ALLEGANY INSTRUMENT CO., INC.
1091 Wills Mountain, Cumberland, Md. (Tel. PArkview 4-1200)
Purch. Agent: Miss Helen Whiteman
Sales Mgr.: Charles K. Johnson GS, TS

ALLEGHENY BALLISTICS LAB.
Cumberland, Md.

ALLEGHENY LUDLUM STEEL CORP.
Oliver Bldg., Pittsburgh 22, Pa. (Tel. COurt 1-5300)
V. P.-Purch.: L. H. Bittner
V. P.-Sales: W. B. Pierce MM

R. C. ALLEN AIRCRAFT INSTRUMENT DIV., R. C. ALLEN BUSINESS MACHINES, INC.
333 Commerce St., S. W., Grand Rapids, Mich. (Tel. GL 6-8541)
Purch. Agent: F. C. Paterson
V. P.-Sales: Henry A. Greene GE, TR

ALLEN AIRCRAFT PRODUCTS, INC.
Ravenna, O. (Tel. AX 6-9621)
Purch. Agent: Russ Lengs
Sales Mgr.: Wm. H. Salladay PS, GS

ALLEN MFG. CO.
Drawer 570, Hartford 1, Conn. (Tel. CH 2-8511)
Purch. Agent: Wm. A. MacDonald
V. P.-Sales: W. D. Horner MF, PS

ALLEN TOOL CORP.
308 Maltbie St., Syracuse, N. Y. (Tel. GR 2-4426)
Sales: Lawrence C. Miner & Norman C. Thompson
Office Mgr.: Jay J. Amidon R&D

ALLENAIR CORP.
255 E. Second St., Mineola, N. Y. (Tel. Pioneer 7-5450)
Purch. Agent: Irving Charm
Sales: A. C. Kelly PS, GS

***ALLIED CHEMICAL CORP., GENERAL CHEMICAL DIV.**
40 Rector St., New York 6, N. Y. (Tel. HAnover 2-7300)
Dir.-Purch.: W. B. Machmer, Jr.
Mgr.-Purch.: J. A. Simpson
Mgr.-Sales: C. P. Berdell MM
*(See Page 45 for Advertisement)

ALLIED CHEMICAL CORP., NATIONAL ANILINE DIV.
40 Rector St., New York 6, N. Y. (Tel. HAnover 2-7300)
Sales: P. T. Oertel

ALLIED CHEMICAL CORP., NITROGEN DIV.
40 Rector St., New York 6, N. Y. (Tel. HAnover 2-7300)
Dir.-Industrial Sales: John J. Porter
Dir.-Prod. Dev. & Tech. Sv.: R. M. Jones

ALLIED CONTROL CO., INC.
2 E. End Ave., New York, N. Y. (Tel. BUtterfield 8-7403)
Purch. Agent: Carl Holland
Gen. Sales Mgr.: Edward Bachorik GS, GE, CO, TS

ALLIED DECALS, INC.
8400 Hough Ave., Cleveland 3, O. (Tel. SW 1-6863)

ALLIED INTERNATIONAL CO.
230 Park Ave., New York 17, N. Y. (Tel. MU 9-6126)
Asst. Secy.: Ed Nemeth
V. P.-Sales: Don Marshall

ALLIED PLASTICS SUPPLY CORP.
75 Cliff St., New York 38, N. Y. (Tel. BEekman 3-7377)
Pres.-Sales: Morton B. Mavrick
V. P.-Purch.: Raymond O. Vetter
MF, WN, PS, GS, GE, CO, TS, TR

ALLIED RESEARCH & ENGRG., DIV.-ALLIED RECORD MFG. CO.
6916 Santa Monica Blvd., Hollywood 38, Calif. (Tel. HOllywood 2-1251)
Purch. Agent: Jack Kalk
Sales Mgr.: Bruce C. Jones GE, R&D

ALLIED RESEARCH PRODUCTS, INC.
4004 E. Monument St., Baltimore 5, Md. (Tel. PE 2-9070)
Purch. Agent: H. C. Quast
V. P.-Sales: J. A. Cairns MM

ALLIED WITAN CO. INC.
12500 Bellair Rd., Cleveland 35, O. (Tel. WInton 1-2800)
Purch. Agent: S. J. Gibel
Sales Mgr.: George Gibel GH, CO, TS

ALLIES' PRODUCTS CORP.
P. O. Box 188, Kendall Branch, Miami 56, Fla. (Tel. CEdar 5-5424)
Sales Mgr.: Miss Hazel I. Brown

ALLIS-CHALMERS
Milwaukee 1, Wisc. (Tel. SPring 4-3600)
Dir.-Purch.: K. R. Geist
Dir.-Sales: C. W. Schweers MM

ALLISON LABS.
14185 Skyline Dr., La Puente, Calif. (Tel. OXford 4-4056)
Dale E. O'Donnell R&D

ALLISON STEEL MFG. CO.
19th Ave. & SP Tracks, P. O. Box 6067, Phoenix, Ariz. (Tel. ALpine 8-7731)
Purch. Agent: L. M. Farr
Sales Mgr.: E. J. Peake GS, GH

ALLMETAL SCREW PRODUCTS CO., INC.
821 Stewart Ave., Garden City, L. I., N. Y. (Tel. Pioneer 1-1200)
Dir.-Purch.: P. Fishman
Purch. Agent: J. Segal
Buyer: F. Risteyn
Sales Mgr.: S. R. Marsh MM

ALLOY BELLOWS INC.
18123 Roseland Rd., Cleveland 12, O. (Tel. IVanhoe 6-3990)
Dir.-Purch.: E. Fantine
Pres.: R. W. Pettersson

ALLOY STEEL CASTING CO.
202 County Line Rd., Southampton, Pa.

ALLOY STEEL PRODUCTS CO.
1300 W. Elizabeth Ave., Linden, N. J. (Tel. WAbash 5-4600)
Purch. Agent: W. Bugher
Gen. Sales Mgr.: R. E. Boller, Jr. GS, TS

ALLOYS UNLIMITED INC.
21 – 01 43rd Ave., Long Island City 1, N. Y. (Tel. STillwell 6-4480)
Purch. Agent: H. Tang
Dir.-Sales: G. Coleman MM

ALL-STATE WELDING ALLOYS CO., INC.
249 Ferris Ave., White Plains, N. Y. (Tel. WH 8-4646)
Purch. Dir.: Charles J. Oleson
Sales Mgr.: Lee S. Wade MF, PS, GE, TR, MM

ALL-TRONICS, INC.
45 Bond St., Westbury, N. Y. (Tel. EDgewood 3-3090)
Purch. Agent: Theodore Silvio
Sales Mgr.: Stephen E. Bullock, Jr.
GS, GE, TS, TR, R&D

ALMAC PLASTICS INC.
600 Broadway, New York 12, N. Y. (Tel. REctor 2-2275)
V. P.: James Grad MM

ALPAR MFG. CORP.
220 Demeter St., Palo Alto, Calif. (Tel. DAvenport 6-8105)
Off. Mgr.: Paul Rochester
Sales Mgr.: R. V. Laustrup GS, TR

ALPHA METALS, INC.
56 Water St., Jersey City, N. J. (Tel. HEnderson 4-6778)
Field Mgr.: Martin A. Boyle MM

ALPHA MOLYKOTE CORP., THE
65 Harvard Ave., Stamford, Conn. (Tel. FI 8-3724)
V. P.-Purch.: C. E. Sonntag
Dir.-Sales: David M. Noltie MM

ALPHA WIRE CORP.
200 Varick St., New York 14, N. Y. (Tel. ALgonquin 5-5400)
Purch. Agent: Sheldon Ellenoff
Asst. Purch. Agent: John Gallagher
Gen. Mgr.-Sales: Howard B. Saltzman
MF, PS, GS, GH, TS, TR

ALPINE ELECTRONIC COMPONENTS, INC.
Wolcott Rd., Waterbury, Conn. (Tel. PLaza 7-1449)
Pres.: Thomas Rowlson
Buyer-Mat.: Joseph Pagano
Asst. Buyer: Ted J. Iorio
V. P.-Sales: Richard Sceery GE

ALPITEC, INC.
49 Gleason Ave., Stamford, Conn. (Tel. FIreside 8-7788)
Pres.: P. Piter
Dir.-Sales: I. Peters GS, TR

ALSOP ENGRG. CORP.
Milldale, Conn. (Tel. Southington MArket 8-9661)
Purch. Agent: John F. Beatson, Jr.
Gen. Mgr.: Raymon F. Harland GS, TS, MM, R&D

ALTAIR INC.
Terryville, Conn. (Tel. LUdlow 3-1343)
Purch. Agent: L. E. Odell
Sales Mgr.: J. J. Mancusi, Jr. GS

ALTAMIL CORP.
225 Oregon St., El Segundo, Calif. (Tel. EAstgate 2-5520)
Purch. Dir.: Dave Davis
Purch. Agent: Al Duvall
V. P.-Sales: H. E. Blythe, Jr. MF, WN

ALTO SCIENTIFIC CO., INC.
855 Commercial St., Palo Alto, Calif. (Tel. DAvenport 1-3434)
Purch. Agent: Miss V. Barrett
Gen. Mgr.-Sales: David Cherry GS, CO, R&D

ALUMINUM ALLOYS CORP.
6650 W. Walton, Detroit 10, Mich. (Tel. TYler 8-5300)
V. P. & Gen. Mgr.: Stanley R. Day MF, PS

ALUMINUM CO. OF AMERICA
1501 Alcoa Bldg., Pittsburgh 19, Pa. (Tel. ATlantic 1-4545)
V.P. & Gen. Purch. Agent: R. O. Keefer
Asst. Gen. Purch. Agent: T. O. English
V.P. & Gen. Sales Mgr.: R. V. Davies MM

***ALUMINUM SAFETY PRODUCTS, INC.**
289 Fifth Ave., New York 16, N. Y. (Tel. MU 6-3160)
Asst. Adv. Mgr.: Harry Nix GS, GH, TS
*(See Page 78 for Advertisement)

ALWAC CORP.
13040 S. Cerise Ave., Hawthorne, Calif. (Tel. OR 8-5774)
Materials Mgr.: C. A. Pena
Marketing Dir.: M. D. Lester MF, GE, TR

AMATOM ELECTRONIC HARDWARE CO. INC.
88 Drake Ave., New Rochelle, N. Y. (Tel. BEverly 5-4441)
Asst. to Pres.: R. Mazzulli
Buyer & Stock Control Ch.: C. Damore
V. P.-Sales: N. D. Frank GS, GE, CO, TS, TR

AMBROID CO. INC.
Box 30, Weymouth 88, Mass. (Tel. EDgewater 5-6658)
Sales & Adv. Mgr.: A. E. Laneau MF

AMCHEM PRODUCTS INC.
Brookside Ave., Ambler, Pa. (Tel. MItchell 6-1700)
Dir.-Purch.: E. A. Snyder
Purch. Agent: W. M. Wilson
Dir.-Mktg.: J. O. J. Shellenberger MM

AMELCO, INC.
2040 Colorado Ave., Santa Monica, Calif. (Tel. EXbrook 3-7281)
Purch. dept.: 1131 Olympic Blvd., Santa Monica, Calif. (Tel. EXbrook 3-7206)
Purch. Agent: B. J. Shryock
Buyer (Electronic Assemblies): Harvey Noel (Tel. EXbrook 3-7206)
Buyer (Electronic Components): Ralph Bateman (Tel. EXbrook 3-7206)
Contract Co-ordinator: James Baumgardner & J. A. Burnett
V. P.-Contract Administrator: Frank J. Bretzing
GS, GH, GE, CO, TS, TR, R&D

AMERAC INC.
Dunham Rd., Beverly, Mass. (Tel. WAlker 2-8610)
Sales Engr.: Owen Haszard GS, GE, CO, TS, TR

AMERICAN AERO PARTS
725 N. Highland Ave., Los Angeles 38, Calif. (Tel. WEbster 8-3538)
V. P.-Purch: C. Conrad Goodreau
Sales Mgr.: C. Raisin GH, MM, R&D

AMERICAN AEROPHYSICS CORP.
109 Sheldon St., El Segundo, Calif. (Tel. ORegon 8-3789)
Purch. Agent: W. C. Dunlop
Asst. Purch. Agent: H. F. Williams
Sales Mgr.: C. B. Spratt WN, GS, R&D

AMERICAN AGILE CORP.
P. O. Box 168, Bedford, O. (Tel. MO 2-6900)

Purch. Agent: V. S. Balogh
Exec. V. P. & Gen. Mgr.-Sales: C. F. Freedman
MM, R&D

AMERICAN AIR FILTER CO., DEFENSE PRODUCTS DIV.
310 3rd St., Rock Island, Ill. (Tel. 8-9311)
Purch. Agent: M. L. Marlaire
Buyers: H. Martin & E. Romser
Sales: R. Andersen GS, GH, CO, R&D

AMERICAN ALUMINUM CO.
230 Sheffield St., Mountainside, N. J. (Tel. ADams 3-3500)
Dir.-Purch.: E. B. Hayden
Exec. V. P.-Sales: M. H. Klausmann MM, R&D

AMERICAN BERYLLIUM CO.
P. O. Box 3142, Sarasota, Fla. (Tel. ELgin 5-5105)
Purch. Agent: George A. Adley MM

AMERICAN BOSCH ARMA CORP.
Fulton Bldg., Hempstead, N. Y. GS, GE, TS, R&D

AMERICAN BRAKE SHOE CO.
530 Fifth Ave., New York 36, N. Y. (Tel. OX 7-7000)
Purch. Agent: F. B. Newbert
MF, WN, GS, GH, MM, R&D

AMERICAN BRAKE SHOE CO. ENGINEERED CASTING DIV.
10 Mt. Read Blvd., Rochester 11, N. Y. (Tel. GEnesee 8-6455)
Defense Prod. Mgr.: Richard A. Pinto
Sales V. P.: P. H. Clapp MF, WN, PS, GS

AMERICAN BRAKE SHOE CO., KELLOGG DIV.
97 Humboldt St., Rochester 9, N. Y. (Tel. BUtler 8-2020)
Purch. Agent: D. S. Judd
Mgr.-Aircraft Prod. Sales: K. C. Binder PS, GE

AMERICAN BRASS CO., THE
414 Meadow St., Waterbury, Conn. (Tel. PLaza 4-1121)
Gen. Purch. Agent: E. A. Lane
Gen. Sales Mgr.: E. B. Tracy MM

AMERICAN BRASS CO., AMERICAN METAL HOSE DIV.
698 S. Main St., Waterbury 10, Conn. (Tel. PLaza 4-1121)
Div. Purch. Agent: W. S. Edwards MF, PS, GS, GH

AMERICAN BRAZING ALLOYS CO.
P. O. Box 11, Pelham, N. Y. (Tel. MO 4-5858)
Sales Mgr.: Mike Ross MM

AMERICAN CAR & FOUNDRY DIV., ACF INDUSTRIES, INC.
750 Third Ave., New York 17, N. Y. (Tel. YUkon 6-8600)
V. P.-Purch.: P. B. Hoyt
V. P.-Mktg.: J. E. Angst MF, PS, GS, GH, MM, R&D

AMERICAN CONVEYOR CO.
2133 S. Christiana Ave., Chicago 23, Ill. (Tel. LAwndale 1-2144)
Purch. Agent: George J. Handa
Sales Engr.: D. C. Colletti GS

AMERICAN CYSTOSCOPE MAKERS, INC.
8 Pelham Pkwy., Pelham Manor, N. Y. (Tel. PE 8-4800)
Purch. Agent: F. J. Scotti
Dir.-Sales: R. V. Lange

AMERICAN ELECTRIC CABLE CO.
181 Appleton St., Holyoke, Mass. (Tel. JEfferson 9-9893)
Treas.-Purch.: M. A. Feinstein
Sales Mgr.: H. Shore MM

AMERICAN ELECTRICAL HEATER CO.
6110 Cass Ave., Detroit 2, Mich. (Tel. TRinity 5-2505)
Purch. Agent: Helen Wilson
Pres.-Sales: Robert A. Kuhn

AMERICAN ELECTRONIC LABS., INC.
121 N. Seventh St., Philadelphia 6, Pa. (Tel. WAlnut 5-8780)
Head-Purch.: Seymour Kalos
Buyers: Jack Wojcik, William White
Sales Mgr.: Robert D. Freedman TR

AMERICAN ELECTRONICS, INC.
1025 W. 7th St., Los Angeles 17, Calif. (Tel. MA 4-9241)
Dir.-Purch.: Dale V. Cropsey GS, GH, TS, R&D

AMERICAN ELECTRONICS, INCORPORATED
9503 W. Jefferson Blvd., Culver City, Calif. (Tel. TExas 0-5581)
Buyer: C. S. Cormack
Mktg. Services Mgr.: A. S. Izuel GE

AMERICAN ELECTRONICS, INC., AMERICAN NUCLEAR DIV.
9459 W. Jefferson Blvd., Culver City, Calif. (Tel. TExas 0-5471)
Purch. Agent: Mary Wallin
Chief Applic. Engr.: T. J. Smith TS

AMERICAN ELECTRONICS, INC., DATATRONICS DIV.
9463 W. Jefferson Blvd., Culver City, Calif. (Tel. TExas 0-7245)
Head-Purch.: J. Snedaker
Buyer: V. Gillette
Sub-Systems & Controls Chief, Appl. Engr.: Eric Swanssen
Data Recording & Processing Chief, Appl. Engr.: Ken Williamson MF, PS, GS, GE, CO, TS, TR

AMERICAN ELECTRONICS, INC., ELECTRIC MACHINERY & EQUIPMENT DIV.
2112 N. Chico Ave., El Monte, Calif. (Tel. CUmberland 3-7151)
Purch. Agent: R. A. Haeuser
Asst. Purch. Agent: Al Glick
Sr. Buyer: Paul McDonough
Buyers: Sid Trowbridge & Frank O'Neil GS

AMERICAN ELECTRONICS, INC., INSTRUMENT DIV.
9503 W. Jefferson Blvd., Culver City, Calif. (Tel. TExas 0-5581)
Buyer: Charles Cormack
Mktg. Service Adm.: Albert Izuel
Mgr.-Field Engrg. & Sales: Jack S. Gasaway GE

AMERICAN ELECTRONICS, INC., TALLER & COOPER DIV.
75 Front St., Brooklyn 1, N. Y. (Tel. ULster 8-0500)
Dir.-Purch.: Arthur Fettig
Dir.-Sales: James Zostro CO, TS, TR, R&D

AMERICAN ELITE, INC.
48–50 34th St., Long Island City 1, N. Y. (Tel. STillwell 6-8713)
V. P.-Sales: Ben Jacobs

AMERICAN FELT CO.
Glenville, Conn. (Tel. JEfferson 1-8700)
Dir.-Procure.: K. R. Peattie
Gen. Purch. Agent: G. P. McShane
Gen. Sales Mgr.: R. Power Fraser MM

AMERICAN GAGE & MACHINE CO.
5200 W. Kinzie St., Chicago 44, Ill. (Tel. EStebrook 9-1121)

AMERICAN GAS FURNACE CO.
140 Spring St., Elizabeth, N. J. (Tel. EL 2-2120)
Purch. Agent: W. Mittermar
Sales Mgr.: F. C. Schoeler

AMERICAN HINGE CORP.
88 Porter Ave., Brooklyn 37, N. Y. (Tel. GLenmore 6-7761)
Dir.-Purch.: Harold Shupack
Dir.-Sales: Florence Shupack

AMERICAN INSTRUMENT CO., INC.
8030 Georgia Ave., Silver Spring, Md. (Tel. JUniper 9-1727)
Purch. Agent: T. Good
Sales Mgr.: Harry Huck
Mktg.: Stanley Dosik GS

AMERICAN INSULATED WIRE CORP.
36 Freeman St., Pawtucket, R. I. (Tel. PA 6-0700)
MF, PS, GS, TR

AMERICAN INSULATOR CORP.
New Freedom, Pa. (Tel. GLen Rock 4211)
Purch. Agent: A. L. Bertner
Sales Mgr.: Barto L. Attig

AMERICAN LADDER & SCAFFOLD CO., INC.
5505 N. W. 7th Ave., Miami, Fla. (Tel. PLaza 4-2663)
Pres.: Melvin Goldfein
Sales Mgr.: Ruth Brown GS, GH

AMERICAN LA FRANCE CORP.
100 E. La France St., Elmira, N. Y. (Tel. 8181)
Purch. Agent: F. R. Baker
Asst. Purch. Agent: George Hughes
V. P.-Sales: G. J. Halpin GS

AMERICAN LATEX PRODUCTS CORP.
3341 W. El Segundo Blvd., El Segundo, Calif. (Tel. ORegon 8-5021)
Exec. V. P. & Gen. Mgr.: T. P. Dougan
Sales Mgr.: William Gargile WN, MM, R&D

AMERICAN LAVA CORP.
Chattanooga 5, Tenn. (Tel. AMhurst 5-3411)
Purch. Agent: C. R. Hughes
Sales Mgr.: E. D. Bell MF, WN, PS, GE, TS, TR

AMERICAN LIGHT ALLOYS, INC.
1265 McBride Ave., Little Falls, N. J. (Tel. CLifford 6-6000)
Controller: Ernest Cirangle, Jr.
Sales: William Wilson, Jr. MF

AMERICAN MACHINE & FOUNDRY CO.
261 Madison Ave., New York 16, N. Y. (Tel. MUrray Hill 7-3100)
Chrm.: Morehead Patterson
Vice Chrm.: Walter Bedell Smith
Pres.: Carter L. Burgess
Group Exec.-Govt. Products: Fred K. Powell, Jr.
Deputy Group Exec.-Govt. Products: R. W. Cook
Deputy Group Exec.-Govt. Products Group, West Coast Operations: L. C. Craigie

NOTE: All correspondence concerning products listed in this Directory should be addressed to **AMF Government Products Group 1701 K Street, N. W., Washington 6, D. C.**
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AMERICAN MACHINE & FOUNDRY CO., GOVERNMENT PRODUCTS GROUP
1701 K St., N. W., Washington 6, D. C. (Tel. MEtropolitan 8-6505)
Dir.-Customer Services: J. H. Blades
WN, PS, GS, GH, R&D

AMERICAN MACHINE & FOUNDRY CO., GREENWICH
11 Bruce Pl., Greenwich 1, Conn. (Tel. NOrmandy 1-7400)
Mgr.-Purch. Dept.: Stephen R. Bradley, Jr.
Purch. Dept.: Walter Dunn
Mgr., Electronics Dept.: D. Pendleton
Mgr., New Programs: J. N. Albaugh, Jr.
GS, GH, CO, TS, TR, R&D

AMERICAN MEASUREMENT & CONTROL, INC.
240 Calvary St., Waltham 54, Mass. (Tel. TWinbrook 4-6212)
V. P.-Purch.: A. E. McCoy
Dir.-Sales: F. B. Cope GE, TS

AMERICAN MISSILE PRODUCTS CO., INC.
15233 Grevillea Ave., Lawndale, Calif. (Tel. OSborne 9-1401)
Purch. Agent: Kathy Potchka
Buyer: Charlotte Ward
Mktg. Mgr.: Bill Caldwell GS, TS, TR, R&D

AMERICAN MOLDED PRODUCTS CO.
2727 W. Chicago Ave., Chicago 22, Ill. (Tel. ARmitage 6-3235)
Purch. Agent: R. Liljeberg
Sales Engr.: A. Weyrich GE, TS, TR, R&D

AMERICAN MONORAIL CO., THE
13107 Athens Ave., Cleveland 7, O. (Tel. LAkewood 1-6000)
Dir.-Purch.: J. C. Roth
V. P.-Mktg.: C. L. Fell GH

AMERICAN NICKEL ALLOY MFG. CORP.
30 Vesey St., New York, N. Y. (Tel. COrtland 7-6420)
Asst. Secy.: W. B. Lobbenberg
Secy.: Albert Sulzbach MM

AMERICAN NON GRAN BRONZE CO.
511 Old Lancaster Rd., Berwyn, Pa. (Tel. Niagara 4-0240)
Purch. Agent: Charles H. Morris MF, WN, PS, GE

AMERICAN OPTICAL CO., INSTRUMENT DIV.
Optical Ave., Keene, N. H. (Tel. ELmwood 2-3202)
Purch. Agent: George Howarth
Sales Mgr.: W. E. Foliand
WN, GE, TS, TR, MM, R&D

AMERICAN PAULIN SYSTEM
1524 S. Flower St., Los Angeles 15, Calif. (Tel. RIchmond 9-0013)
Dir.-Sales: Arch F. Munter

***AMERICAN POTASH & CHEMICAL CORP.**
3000 W. Sixth St., Los Angeles 54, Calif. (Tel. DUnkirk 2-8231)
Purch. Agent: Manuel Gonsalves, NATIONAL NORTHERN DIV., W. King St., West Hanover, Mass. (Tel. TRiangle 7-1770)
Sales Mgr.: J. A. Haynes TR, MM, R&D
*(See Page 38 for Advertisement)

AMERICAN PRINTED CIRCUITS CO., INC.
104 Forrest St., Metuchen, N. J. (Tel. LIberty 8-5777)
V. P.-Purch.: Mrs. Betty M. Weaver
Pres.-Sales: Howard L. Toft GE, MM

CODING
Missile Frame MF
Warhead & Nose Cone WN
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Ground Support GS
Ground Handling GH
Guidance Equipment GE
Checkout Equipment CO
Test Equipment TS
Tracking & Telemetering TR
Research & Development R&D
Materials & Metals MM

AMERICAN RADAR COMPONENTS INC.
45 E. Main St., Denville, N. J. (Tel. OAkwood 7-5530)
Dir.-Purch.: John P. Hundley **GE, TR**

AMERICAN REFRACTORIES & CRUCIBLE CORP.
345 Washington Ave., North Haven, Conn. (Tel. CEdar 9-1624)
V. P. & Sales Mgr.: George H. Caligan
Purch. Agent: E. R. Crandall

AMERICAN RESEARCH CORP.
Rt. 6, Farmington, Conn. (Tel. ORchard 7-2693)
Dir.-Purch.: Ted Augustyn
Dir.-Sales: Jack Shamroth **TS**

AMERICAN RESEARCH & MFG. CORP.
920 Halpine Ave., Rockville, Md. (Tel. HAzelwood 7-7116)
Purch. Agent: Robert J. Taylor
MF, PS, GS, GH, GE, CO, TS, TR, R&D

AMERICAN ROCKET CO.
P. O. Box 1112, Wyandotte, Mich. (Tel. LOgan 5-3408)
Pres.: Alfred J. Zaehringer **MF, PS, TS, MM, R&D**

AMERICAN SCREW CO.
1680 W. Main St., Willimantic, Conn. (Tel. HArrison 3-6331)
Purch. Agent: Wallace A. Smedley
Gen. Sales Mgr.: J. J. Coy **MF, PS**

AMERICAN SILVER CO.
36-07 Prince St., Flushing 54, N. Y. (Tel. FLushing 3-8012)
Purch. Agent: L. Chibnik
Sales: M. Sherman **MM**

AMERICAN SMELTING & REFINING CO.
120 Broadway, New York 5, N. Y.
Adv. Mgr.: Edward Friedlander **MM**

AMERICAN SOLDER & FLUX CO.
19th & Willard Sts., Philadelphia, Pa. (Tel. BAldwin 6-1800)
Gen. Mgr.: M. H. Matz
Sales Mgr.: J. J. McBride

AMERICAN SPEEDLIGHT CORP.
63-01 Metropolitan Ave., Middle Village 79, N. Y. (Tel. EMpire 6-3000)
Purch. Agent: Pat Tagriello
Pres.: Harry L. Parker

AMERICAN STANDARD PRODUCTS, INC.
3030 Main St., Hartford, Conn. (Tel. CHapel 9-7707)
Purch. Agent: Bernard Cantor
Sales Mgr.: William B. Lindholm
Buyers: George Nelson & Elliot Ginden
MF, WN, PS, GS, GE, MM

AMERICAN STEEL FOUNDRIES, HAMMOND DIV.
Hohman & Hoffman Sts., Hammond, Ind. (Tel. WEstmore 1-1900)
Div. Purch. Agent: D. L. Koontz
Div. Sales Mgr.: L. L. Phelps
Buyers: Dean Norton, Ernie Holzwarth, John L. McKittrick **MF, WN, GH**

AMERICAN STEEL & WIRE DIV.-UNITED STATES STEEL CORP.
Rockefeller Bldg., 614 Superior Ave., N. W., Cleveland 13, O. (Tel. TOwer 1-2000)
Purch. Agent: R. W. Berrett
Prod. Planning & Dev. Div.-Aircraft & Missiles: H. F. Powders
V. P.-Sales: E. A. Murray **MF, PS, GH, TS**

AMERICAN SUPER-TEMPERATURE WIRES, INC.
34 W. Canal St., Winooski, Vt. (Tel. UNiversity 2-9636)
Purch. Agent: Charles Bellmare
Sales Mgr.: Richard D. Hoyt
MF, PS, GS, GH, TS, TR, MM

AMERICAN TUBE BENDING CO., INC.
7 Lawrence St., New Haven 8, Conn. (Tel. STate 7-2131)
Purch. Agent: A. L. Shumway
Sales Mgr.: C. T. Novak **MF, PS, GS**

AMERICAN WELDING & MFG. CO., THE
Dietz Rd., Warren, O. (Tel. EXpress 3253-1)
Purch. Agent: C. A. Miller
Buyers: G. L. Madigan, D. W. Parker
Sales Mgr.: Frank J. Shanaberg
Asst. to Sales Mgr.: Warren Gressle
MF, WN, PS, GS, GH, GE, TS

B. C. AMES CO.
131 Lexington St., Waltham 54, Mass. (Tel. TWinbrook 3-0095)
Purch. Agent: B. C. Ames
Dir.-Sales: H. B. Kruse **R&D**

AMGLO CORP.
4333 N. Ravenswood Ave., Chicago 13, Ill. (Tel. BUckingham 1-2727)
Purch.: C. M. Bobka **GS, GE, CO, TS, TR**

AMOCO CHEMICALS CORP.
910 S. Michigan Ave., Chicago 80, Ill. (Tel. HArrison 7-8886)
Supvr.-Propellant: E. P. Easterday **PS**

AMPCO METAL, INC.
1759 S. 38th St., Milwaukee 46, Wisc. (Tel. MItchell 5-3750) **MF, WN, PS, GH, GE**

AMPEX MAGNETIC TAPE
934 Charter St., Redwood City, Calif. (Tel. EMerson 9-1481)
Purch. Agent: Frank Masi
Sr. Buyers: Glen Zieher, Hal Nelson & John Lovett
Dir.-Gen. Purch.: Bill Haack **CO, TS, TR, R&D**

AMPHENOL CABLE & WIRE DIV., AMPHENOL-BORG ELECTRONICS CORP.
S. Harlem Ave. at 63rd St., Chicago 38, Ill. (Tel. BIshop 2-1000)
Purch. Agent: Arthur B. Geiger
Sales Mgr.: Robert W. Felber **GS, GE, TS, TR**

AMPHENOL CONNECTOR DIV., AMPHENOL-BORG ELECTRONICS CORP.
1830 S. 54th Ave., Chicago 50, Ill. (Tel. BIshop 2-1000)
Purch. Agent: John Leahy
Sales Mgr.: Herbert Motz **WN, GS, GE, CO, TS, TR**

AMPHENOL WESTERN DIV., AMPHENOL-BORG ELECTRONICS CORP.
9201 Independence Ave., Chatsworth, Calif. (Tel. DIamond 8-6600)
Buyer: Harold Simpson
District Sales Mgr.: John Kays
WN, GS, GE, CO, TS, TR

AMPLEX DIV.-CHRYSLER CORP.
P. O. Box 2718, Detroit 31, Mich. (Tel. WAlnut 1-6733)
Sales Mgr.: W. L. Martin
MF, WN, PS, GS, GH, GE, TR

AMPLIFIER CORP. OF AMERICA
398 Broadway, New York 13, N. Y. (Tel. WOrth 6-2929)
Purch. Agent: M. R. Ellis
Sales Mgr.: A. J. Gillette **GS, GE, CO, TS, R&D**

AMTHOR TESTING INSTRUMENT CO., INC.
45 Van Sinderen Ave., Brooklyn 7, N. Y. (Tel. DIckens 6-8841)
Sales Mgr.: Al Littmann **CO, TS**

ANACHROME CORP.
10647 S. Garfield Ave., South Gate, Calif. (Tel. LO 4-3381)
Dir.-Sales: Joseph E. Trankla **MF, WN**

ANACONDA METAL HOSE DIV., THE AMERICAN BRASS CO.
698 S. Main St., Waterbury 20, Conn. (Tel. PLaza 4-1121)
Sales Mgr.: W. B. Hammond
Div. Purch. Agent: W. S. Edwards **MF, PS, GS, GH**

ANACONDA WIRE & CABLE CO.
25 Broadway, New York, N. Y. (Tel. HA 2-6300)
V. P.-Sales: D. E. Allen

ANADITE INC.
10630 Sessler St., South Gate, Calif. (Tel. LO 7-0511)
Purch. Agent: Clarence Edwards
Dir.-Sales: Stanley M. Buckley **MF**

ANAHEIM ELECTRONICS CO., INC.
2259 Falmouth, Anaheim, Calif. (Tel. PRospect 4-2755)
Mgr.: R. T. Arnold
Asst. Mgr.: J. E. Miller
Sales Mgr.: W. Key

ANALOGUE CONTROLS, INC.
200 Frank Rd., Hicksville, N. Y. (Tel. OVerbrook 1-7300)
Dir.-Purch.: Abe Barbanel
V. P.-Sales: Edward J. Garrett
GS, GE, CO, TS, R&D

ANALYTICAL INSTRUMENTS, INC.
R. F. D. 2, Cedar Lake, Bristol, Conn. (Tel. Bristol, LUdlow 2-6941)
Pres.: James G. McClure **TS, R&D**

ANALYTICAL MEASUREMENTS, INC.
585 Main St., Chatham, N. J.
Pres.: Frank G. Paully

ANCHOR COUPLING CO. INC.
342 N. Fourth St., Libertyville, Ill. (Tel. 2-1800)
Sales Mgr.: J. D. Luebkeman **MF, PS, GS**

ANCHOR METAL CO. INC.
966 Meeker Ave., Brooklyn, N. Y. (Tel. ST 2-7090)
Purch.: Walter R. Cole, Edwin Kent
Sales: H. Drapkin
MF, WN, PS, GS, GH, GE, CO, TR

ANCHOR METAL SPINNING CO., THE
46 Fluhart Ave., Dayton 8, O. (Tel. BAldwin 8-2107)
Purch.: M. Weinel
Sales Mgr.: William Semmelman
MF, WN, PS, GS, GH

ANCHOR PACKING CO., THE
401 N. Broad St., Philadelphia 8, Pa. (Tel. WAlnut 2-1343)
Secy.-Treas.: J. H. Maston
Gen. Sales Mgr.: B. B. Reagan (Tel. Harrison 7-5432, Chicago) **MM**

ANCHOR PLASTICS CO., INC.
36-36 36th St., Long Island City 6, N. Y. (Tel. RAvenswood 9-1494)
Pres. & Sales Mgr.: R. A. Fisch **MM**

ANCHOR SPECIALTY MFG. CO. INC.
300 Hollister Rd., Teterboro, N. J. (Tel. AT 8-1939)
Purch.: Wm. Zablocky **PS, GS, GH, GE, TS, R&D**

ANDERSEN LABS.
501 New Park Ave., West Hartford, Conn. (Tel. ADams 3-4491)
Purch. Agent: H. W. Stewart
Pres.: F. E. Baker **GE, CO, TS, TR, R&D**

ANDERSON AIRCRAFT CO.
Spring St., North Dighton, Mass. (Tel. VAn Dyke 4-8611)
Purch. Agent: Robert H. Leeming
Dir.-Sales: Albert Gramm

ANDERSON CHEMICAL CO., DIV.-STAUFFER CHEMICAL CO.
Weston, Mich. (Tel. GEneva 6-2322)
Purch. Agent: G. D. Sharpe
Dir.-Sales: H. G. Deters

***ANDERSON, GREENWOOD & CO.**
5425 N. Rice Ave., Houston 36, Texas (Tel. MAdison 3-2343)
Purch. Agent: C. J. Scallan (Tel. MAdison 3-8956)
Sales Mgr.: W. W. Hering **GS, GH, R&D**
*(See Page 62 for Advertisement)

ANDERSON MACHINE & TOOL CO.
7 Flower St., Hartford, Conn. (Tel. CH 6-8059)
C. O. Anderson **GE**

ANDERSON OIL & CHEMICAL CO., INC.
P. O. Box 111, Portland, Conn. (Tel. DIamond 7-2555)
Purch. Agent: Mrs. H. M. McLean
Gen. Mgr.-Sales: T. M. Purtell **MM**

ANDREW CORP.
363 E. 75th St., Chicago 19, Ill. (Tel. TRiangle 4-4400)
Purch. Agent: John Cornyn
Dir.-Mktg.: Robert P. Lamons
Sales Mgr.: C. Robert Lane
Buyer: Richard H. Knoll
WN, PS, GS, GH, GE, TS, TR

ANDROMEDA, INC.
3742 Howard Ave., Kensington, Md. (Tel. LOckwood 5-3775)
Dir.-Purch. & Sales: Ernest F. Ainsworth **R&D**

***ANNIN CO., THE**
1040 S. Vail Ave., Montebello, Calif. (Tel. RAymond 3-9351)
Purch. Agent: N. A. Jacobs
Sales Mgr.: H. C. Earle, Jr. **GS, GH, TS, R&D**
*(See Page 52 for Advertisement)

R. B. ANNIS CO.
1101 N. Delaware St., Indianapolis 2, Ind. (Tel. ME 5-2838)
Purch. Agent: R. K. Caskey
Dir.-Sales: R. B. Annis **GE**

ARTHUR ANSLEY MFG. CO.
New Hope, Pa. (Tel. AXtel 7-2711)
Purch.: Arthur C. Ansley **GE, TR**

ANSONIA WIRE & CABLE CO., THE
111 Martin St., Ashton, R. I. (Tel. PAwtucket 6-6300)
Purch. Agent: J. A. Milner
Gen. Sales Mgr.: A. J. W. Novak
MF, PS, GS, GH, TS, TR

ANSUL CHEMICAL CO.
1 Stanton St., Marinette, Wisc. (Tel. REdwood 5-7411)
Mgr.-Purch.: Lee O'Leary
V. P.-Sales: L. C. McKesson **GS**

ANTENNA & RADOME RESEARCH ASSOCIATES
1 Bond St., Westbury, L. I., N. Y. (Tel. ED 4-8770)
Dir.-Purch.: J. Berg
Sales Mgr.: E. B. Weissman **CO, TR**

ANTENNA SPECIALISTS CO., THE
12435 Euclid Ave., Cleveland 6, O. (Tel. SWeetbriar 1-7878)
Purch. Agent: N. Schroeder
Pres.: M. Friedberg **GS, GH**

ANTI-CORROSIVE METAL PRODUCTS CO., INC.
P. O. Box 1894, Albany, N. Y. (Tel. PErshing 2-7711)
V. P.-Purch.: Frank Legnard
Asst. Purch. Agent: David J. Freed
V. P.-Sales Mgr.: Price Berrien **MM**

ANTLAB INC.
6330 Proprietors Rd., Worthington, O. (Tel. TUxedo 5-5396)
Purch. Agent: Kenneth L. Riggle
Buyer: Odell H. Wellman **TS**

ANTON ELECTRONIC LABS., INC.
1226 Flushing Ave., Brooklyn 37, N. Y. (Tel. EVergreen 6-5715)
Purch. Agent: Bernard Neveloff
Dir.-Sales: George Weinman
MF, PS, GS, GH, GE, CO, TS, TR

APEX MACHINE & TOOL CO., THE
P. O. Box 952, Dayton 1, O. (Tel. BAldwin 2-7871)
Adv. Mgr.: T. A. Polley

APEX REINFORCED PLASTICS, DIV.-WHITE SEWING MACHINE CORP.
Washington & Elm Sts., Cleveland 13, O. (Tel. CHerry 1-7834)
Purch. Agent: John Clyne
Asst. Purch. Agent: Louis Zak
Chief Sales Engr.: William W. Patterson **MM, R&D**

APPLIED DESIGN CO.
1807 Elmwood Ave., Buffalo 7, N. Y. (Tel. DElaware 9595)
Pres.: H. E. Johnson
Purch. Agent: D. J. Stanish
V. P.-Contracts: H. E. Hill **WN, GS, GH, GE**

APPLIED DYNAMICS CORP.
32 N. Main St., Natick, Mass. (Tel. OLympic 3-5271)
V. P.-Purch.: R. G. Ahlquist
Ch. Engr.: C. A. Bentley, Jr. **TS, GS**

APPLIED PHYSICS CORP.
2724 S. Peck Rd., Monrovia, Calif. (Tel. HIllcrest 6-7181)
Mgr.-Materiel: Scott Metcalf
Dir.-Sales: Robert W. Moulton **R&D**

APPLIED RADIATION CORP.
2404 N. Main St., Walnut Creek, Calif. (Tel. YEllowstone 5-2250)
Purch. Agent: Howard D. Layson
Dir.-Sales & Operations: Warren W. Eukel **PS, R&D**

APPLIED RESEARCH LABS., INC.
3717 Park Place, Glendale, Calif. (Tel. CHapman 5-5524)
Material Mgr.: J. D. McKim (Tel. CHurchill 9-6193)
Buyers: James Reddy & Donald Nadell (Tel. CHurchill 9-6193)
Gen. Sales Mgr.: William E. Davis **CO, TS, TR**

APPLIED SCIENCE CORP. OF PRINCETON
Princeton, New Jersey (Tel. Swinburn 9-1000)
Dir.-Procurement: James G. Robinson
Purch. Agent: Wendell S. Hall
Buyers: Robert J. Marcy, Edwin W. Dawson, Timothy K. Donath
Indsl. Sales Mgr.: D. S. Samuelson **TR, R&D**

ARCH GEAR WORKS INC.
97 Holmes St., North Quincy, Mass. (Tel. PR 3-8801) and 4336 E. 10th Court, Hialeah, Fla. (Tel. MUrray 8-2528)
Purch. Agent, Quincy: R. M. Allen
Purch. Agent, Hialeah: A. E. Carroll
Sales Mgr.: R. W. Gray (Tel. CEdar 5-5296) **GE, TR**

ARCO CO., THE
7301 Bessemer Ave., Cleveland 27, O. (Tel. MIchigan 1-1170)
Purch. Agent: Lon Esther
Asst. Purch. Agent: George Otto
Sales Mgr.-Maintenance Sales: Dan G. Kloss
Sales Mgr.-Product Finishes: Ben F. Edman
MF, WN, GE, TS

ARCTURUS MFG. CORP.
4301 Lincoln Blvd., Venice, Calif. (Tel. TExas 0-2751)
Purch. Agent: Vern Marlow
Sales Mgr.: Fred Schneller

ARDE-PORTLAND, INC.
75 Austin St., Newark 2, N. J. (Tel. BIgelow 8-8500)
Contract Admin.: E. Brummel
Pres.: Dr. I. G. Sage **PS, R&D**

ARDMORE PRODUCTS
1825 Shermer Rd., Northbrook, Ill.
Sales Mgr.: Charles W. Jones

ARENBERG ULTRASONIC LAB., INC.
94 Green St., Jamaica Plain 30, Mass. (Tel. JA 2-8640)
Pres.: David L. Arenberg **R&D**

ARENS CONTROLS, INC.
2017 Greenleaf St., Evanston, Ill. (Tel. DAvis 8-4700)
Purch. Agent: Fred W. Green
Sales: William Buschart **GS, GH**

ARIES LABORATORIES, INC.
45-33 Davis St., Long Island City 1, N. Y. (Tel. RAvenswood 9-9001)
Purch. Agent: H. Grisar
Sales Mgr.: W. Stern **MM**

ARISTOCRAT PLASTICS, INC.
23-25 Sussex Ave., Newark, N. J. (Tel. MItchell 3-6110)
Pres.: Arthur Meier **MF, PS, GE, TR**

ARKWIN INDUSTRIES, INC.
648 Main St., Westbury, L. I., N. Y. (Tel. EDgewood 3-2640)
Purch.: Hank Baufr
V. P.-Sales: Julius Kendall
MF, WN, PS, GS, GH, GE, TS

ARMA DIV., AMERICAN BOSCH ARMA CORP.
Roosevelt Field, Hempstead, N. Y. (Tel. PIoneer 2-2000)
Mgr.-Procurement: George J. Ryan
Corporate Dir.-Purch.: W. M. Maughan **GS, GE, R&D**

ARMCO STEEL CORP.
703 Curtis St., Middletown, O. (Tel. GArden 2-2811)
Purch.: J. S. Thomas
Sales: L. T. Johnston **MM**

ARMEL ELECTRONICS, INC.
840 Fifth Ave., Brooklyn 32, N. Y. (Tel. STerling 8-0422)
Purch. Agent: A. K. Niemi
Sales Mgr.: D. J. Gustafson
GS, GE, CO, TS, TR, R&D

ARMITE LABS.
6609 Broad St., Los Angeles 1, Calif. (Tel. LUdlow 7-7744)
V. P.-Purch.: J. H. Armington
Sales Mgr.: S. A. Chesnutt **MF, PS, MM**

ARMOUR AMMONIA DIV.
1355 W. 31st St., Chicago 9, Ill. (Tel. LAfayette 3-7000)
Purch. Agent: Frank Kraft
Purch.: E. Van Eylen, W. Roos, F. Peterson
Sales Mgr.: P. W. Fulford **MM**

ARMOUR AND CO.
16123 Armour St., N. E., Alliance, O. (Tel. TAlbot 1-3510)
Purch. Agent: H. M. Wilson, Jr.
Gen. Sales Mgr., Coated Abrasives Div.: R. L. Heiniger
Gen. Sales Mgr., Cushioning Prod. Div.: J. P. Coughlin **TS, R&D**

ARMOUR & CO., ARMOUR ALLIANCE INDUSTRIES
16123 Armour St., N. E., Alliance, O. (Tel. TAlbot 1-3510)
Purch. Agent: H. M. Wilson
Gen. Sales Mgr.-Coated Abrasives: H. R. Heiniger
Gen. Sales Mgr.-Cushion Prod.: J. P. Coughlin
Sales Mgr.-Adhesives Div.: J. H. Keys
Sales Mgr.-Packaging Dept.: J. F. Beckert

ARMSTRONG CORK CO.
W. Liberty St., Lancaster, Pa. (Tel. EXpress 7-0611)
Gen. Purch. Agent: M. L. Lampe
Asst. Gen. Purch. Agent: W. A. Abel
Gen. Sales Mgr.: W. B. Tucker **MF, PS**

ARMSTRONG PRODUCTS CO.
P. O. Box I-MG, Warsaw, Ind. (Tel. AMherst 7-3226)
Mgr.: F. E. Harrison **MF, WN**

ARNAV AIRCRAFT ASSOCIATES, INC.
32 Industrial Ave., Little Ferry, N. J. (Tel. HUbbard 9-8600)
V. P.-Purch.: M. A. Murray
Sales Mgr.: J. M. Muchmikoff
Mgr., West Coast Plant: H. Deets, 121 Main St., El Segundo, Calif. (Tel. EAstgate 2-4433)
MF, PS, TS

ARNO ADHESIVE TAPES, INC.
U. S. 20 at Ohio St., Michigan City, Ind. (Tel. TRiangle 4-3235)
Purch. Agent: R. L. Scholl
Sales Mgr.: D. W. Burke **MF, PS, TR**

ARNOLD ENGRG. CO., THE
P. O. Box G, Marengo, Ill. (Tel. Chicago ANdover 3-6300; Marengo JOrdan 8-7251)
Purch. Agent: R. L. Pottinger
Buyer: J. Strain
Sales Mgr.: Benjamin Falk **MF, PS, GS, GE, TR**

ARNOLT CORP.
Warsaw, Ind. (Tel. AMhurst 7-7111)
Dir.-Purch.: Roger H. Davis
Purch. Agent: Carl D. Schultz
V. P.-Military Liaison: H. M. Henderson **GS, GH**

***ARNOUX CORP.**
11924 W. Washington Blvd., Los Angeles 66, Calif. (Tel. TExas 0-5371)
Purch. Agent: George Pesner
Asst. Purch. Agents: Darlene Thompson & Conrad J. Doerr
Dir.-Mktg.: Michael Dodak **GS, TR**
*(See Pages 50 & 82 for Advertisement)

ARO EQUIPMENT CORP., THE
Bryan, O. (Tel. 6-1161)
Purch. Dir.: D. M. Nixon
Purch. Agent, Aircraft Div.: C. E. DeGroff
Sales Mgr.-Aircraft: D. W. Orrick, Jr.
MF, PS, GS, GH, GE, TS, TR

ARO, INC.
Tullahoma, Tenn. (Tel. GL 5-2611)
Mgr.-Procurement: J. G. Crigler
Asst. Mgr.-Procurement: Charles M. Solomon **R&D**

ARRO EXPANSION BOLT CO.
N. Boone Ave., Marion, O. (Tel. 3-1154)
Purch. Agent: Ray W. Coy
Sales Mgr.: John J. Dugan

ARROW TOOL CO. INC.
36 Mill St., Wethersfield, Conn. (Tel. JAckson 9-2507)
V. P.-Purch.: David Dewhurst
Buyer: Joseph Burgess
Sales Mgr.: Robert E. Walsh **GS, GH**

ARROW-HART & HEGEMAN ELECTRIC CO., THE
103 Hawthorn St., Hartford 6, Conn. (Tel. CHapel 9-8471)
Purch. Agent: N. P. Belcourt
V. P.-Sales: F. L. Mathes

ARROWHEAD PRODUCTS, DIV.-FEDERAL-MOGUL-BOWER BEARINGS, INC.
2300 Curry St., Box 1890, Long Beach 1, Calif. (Tel. NEvada 6-0571)
Purch. Agent: Charles Smith
Sales: Arnold J. Dovey **MM, R&D**

ART SPECIALTY CO.
3720 N. Milwaukee Ave., Chicago, Ill. (Tel. KIldare 5-6607)
Purch. & Sales: Robert Nattenberg

ART WIRE & STAMPING CO.
227 High St., Newark 2, N. J. (Tel. HUmboldt 4-2100)
Purch. Agent: Fred Riedmuller
Sales: Nils Johnson **MF, WN, PS, GE**

ARTISAN ELECTRONICS CORP.
171 Ridgedale Ave., Morristown, N. J. (Tel. JEfferson 8-8500)
V. P.-Purch.: Sheldon Masser
Sales Mgr.: S. Joseph Carris **GS, CO, TS, TR**

ARTOS ENGRG. CO.
2757 S. 28th St., Milwaukee 46, Wisc. (Tel. MItchell 5-6010)
Shop Supt.: Hubert Mueller
Sales Mgr.: Haakon T. Randar **MF, PS, GS**

ARWOOD PRECISION CASTING CORP.
321 W. 44th St., New York 36, N. Y. (Tel. JUdson 2-4210)
Purch. Agent: F. W. Wacker
V. P.-Sales: William O. Sweeny

ASHLAND ELECTRIC PRODUCTS, INC.
32-02 Queens Blvd., Long Island City 1, N. Y. (Tel. EXeter 2-4010)
Purch. Agent: E. R. Obermann
Sales Mgr.: C. W. McElhiney **PS, GH, GE, TR**

ASHLAND OIL & REFINING CO.
1409 Winchester Ave., Ashland, Ky. (Tel. EAst 4-1111)
Dir.-Purch.: J. K. Barron
Purch.: J. S. Hannah, D. T. Dunn, Wilburn Caskey
V. P.-Sales: P. C. Talbutt **PS, TS, MM, R&D**

ASSEMBLY PRODUCTS, INC.
Wilson Mills Rd., Chesterland, O. (Tel. HAmilton 3-4436)
Purch. Agent: Robert Foltz
V. P.-Sales: Robert H. Pugsley
GS, CO, TS, TR, R&D

CODING

Missile Frame	MF
Warhead & Nose Cone	WN
Propulsion System	PS
Ground Support	GS
Ground Handling	GH
Guidance Equipment	GE
Checkout Equipment	CO
Test Equipment	TS
Tracking & Telemetering	TR
Research & Development	R&D
Materials & Metals	MM

ASSOCIATE AIRCRAFT TOOL & MFG., INC.
3660 Dixie Hwy., Hamilton, O. (Tel. TWinbrook 3-2812)
Pres.: Henry W. Malhofski
MF, WN, PS, GH, GE, R&D

ASSOCIATED AMERICAN WINDING CO., INC.
750 St. Ann's Ave., New York 56, N. Y. (Tel. CYpress 2-5050)
Chief Purch. Agent: N. Goldman
Sales Mgr.: G. B. Franklin PS, GS, GH, GE, TR

ASSOCIATED ENGRG. CORP.
65 Kent St., Brookline 46, Mass. (Tel. ASpinwall 7-4664)
Purch. Agent: L. R. Demarkles
Dir.-Sales: F. K. Chin MM

ASSOCIATED ENGRG. & MFG. CORP.
210 M Stone House Rd., Glen Ridge, N. J. (Tel. PIlgrim 3-8899)
Dir.-Purch.: V. B. Fox
Mgr.: Frank Rhodes MM

ASSOCIATED ENGINEERS, INC.
P. O. Box 1628, Springfield, Mass. (Tel. RE 4-6431)
Purch. Agent: A. E. Chalfin
Asst. Purch. Agent: Wayne Palmer
V. P.-Sales: John Flaskamper
WN, GS, GH, GE, TS, R&D

ASSOCIATED RESEARCH, INC.
3779 W. Belmont Ave., Chicago 18, Ill. (Tel. COrnelia 7-4040)
Purch. Agent: J. W. Bente
V. P.-Sales: Richard W. Inman GE, CO, TS, TR

***ASSOCIATED TESTING LABS., INC.**
135 Clinton Rd., Caldwell, N. J. (Tel. CApital 6-7407)
Dir.-Engrg.: William Tonkowich
Chief Product Engr.: John W. Fricke
Sales Mgr.-Engrg.: Bernard Novack PS, GS, CO, TS
*(See Page 32 for Advertisement)

ASTRAVAC CORP.
1011-D Industrial Way, Burlingame, Calif. (Tel. DIamond 2-6048)
Pres.: P. A. Peller
Secy.-Treas.: M. B. Stern GS, GH, GE, CO, TS

ASTRODYNE, INC.
P. O. Box 548, McGregor, Tex. (Tel. GRanite 5-2811)
Chief, Material: R. S. Mulligan
Purch. Agent: R. C. Terry
Supvr.-Buying: W. M. St. John PS, R&D

ASTRON CORP.
255 Grant Ave., East Newark, N. J. (Tel. HUmboldt 2-7800)
Purch. Agent: George M. Sexton
Gen. Sales Mgr.: Irving I. Ser WN, GE, R&D

ASTRONAUTICS ENGRG. CO.
500 W. 18th St., Hialeah, Fla. (Tel. TUxedo 7-8114)
Dir.-Purch.: L. M. Gray
Dir.-Sales: Robert W. Wise GS, GH, TS, R&D

ASTRONETICS, INC.
Box 450-C, Red Bank, N. J. (Tel. AT 1-2700)
Dir.-Purch.: T. George
Sales: A. Munchak, Jr.

ATKINS & MERRILL, INC.
Boston Post Rd., South Sudbury, Mass. (Tel. HIlltop 3-8822)
Purch. Agent: Robert Johnson
Buyer: Lee Goodbar
Buyer: Howard Elet (Reinforced Plastics Div., Bartlett St., Marlboro, Mass. (Tel. MArlboro 1114)
Dir.-Sales: Arthur V. Boyce
WN, GS, GH, TS, MM, R&D

ATKOMATIC VALVE CO., INC.
545 W. Abbott St., Indianapolis 25, Ind. (Tel. MElrose 8-6545)
Treas.: Robert A. Morris
Sales Mgr.: Mark W. Lowe PS, GS, GH, TS

ATLANTIC ENGRAVERS, INC.
52 Ocean Ave., Amityville, N. Y. (Tel. AM 4-5088)
V. P.-Purch.: Wayne Fajans
MF, WN, PS, GE, TS, TR

ATLANTIC INSTRUMENT CORP., SUB.-AMERICAN ELECTRONICS, INC.
90 Broadway, Norwood, Mass. (Tel. NO 7-2638)
Sales Mgr.: D. L. Thomas GE, CO, TS

ATLANTIC METAL HOSE CO., INC.
308 Dyckman St., New York City 34, N. Y. (Tel. LOrraine 9-5400)
Purch. Agent: David M. Fuchs

ATLANTIC RESEARCH CORP.
901 N. Columbus St., Alexandria, Va. (Tel. KIng 9-7500)
Purch. Agent: Wilbur H. Smith
Mgr.-Development: DeWitt O. Myatt
WN, PS, GH, CO, TS, MM, R&D

ATLAS COIL INC.
63 Main St., Ansonia, Conn. (Tel. RE 5-4628)
Purch. Agent: Harold Kaye GE, CO, TS, TR

ATLAS E-E CORP.
47 Prospect St., Woburn, Mass. (Tel. WEIls 3-5390)
Purch. Agent: R. A. Joyce
Mktg. Mgr.: Dan E. Baker GE

ATLAS ENGRG. CO. INC.
176 Blue Hill Ave., Roxbury, Mass. (Tel. HIghlands 5-7100)
Purch. Agent: John Ward
Sales Mgr.: Norman Scotch R&D

ATLAS ENGRG. CORP.
26 Custer St., West Hartford 10, Conn. (Tel. CHapel 6-5651)
Pres.: R. C. Biggers

ATLAS PRECISION PRODUCTS CO.
3801 Castor Ave., Philadelphia 24, Pa. (Tel. JEfferson 5-3700)
Purch. Agent: Robert States
Buyer: Alec Duncan
Gen. Sales Mgr.: Herbert L. Zwirn
WN, GS, GH, GE, CO, TS, TR, R&D

ATLAS SCREW & SPECIALTY CO.
450 Broome St., New York 13, N. Y. (Tel. NOrth 6-0600)
Purch. Agent: Irwin Koplan, 396 Jelliff Ave., Newark, N. J. (Tel. BIgelow 8-3000)
V. P.-Sales: V. J. Merz MM

ATMO SEAL CO.
3475 Cardiff Ave., Cincinnati 9, O. (Tel. TRinity 1-5512)
Co-Owners: W. L. Niswander & R. J. Stoewe
GS, GE, TR

ATTLEBORO REFINING CO., INC.
42 Union St., Attleboro, Mass. (Tel. ATtleboro 1-3705)
Plt. Supt. & V. P.-Purch.: Edward F. Towle
Sales Mgr.: John H. Quebman MF, WN, PS, GE, TR

AUBURN MFG. CO., THE
Stack St., Middletown, Conn. (Tel. DIamond 6-6631)
Purch. Agent & Sales Mgr.: M. B. Weiner
MF, WN, PS, GS, GE, TR

AUBURN SPARK PLUG CO., INC.
89 York St., Auburn, N. Y. (Tel. 2-9501)
V. P.-Purch.: A. R. Nolin
Supt.: Leo Bates
Sales Mgr.: A. W. DeChard
MF, WN, PS, GS, GH, GE, CO, TS, TR

AUDIO DEVELOPMENT CO.
2833 13th Ave. S., Minneapolis 7, Minn. (Tel. PA 9-7386)
Purch. Agent: V. S. Borman
Asst. Purch. Agent: Ed Rosendale
Dir.-Sales: D. E. Engebretson

AUDIO DEVICES, INC.
444 Madison Ave., New York 22, N. Y. (Tel. PLaza 1-6640)
Purch. Agent: Ellis Mays
V. P.-Sales: Bryce Haynes TR

AUDIO DEVICES, INC.-RECTIFIER DIV.
620 E. Dyer Rd., Santa Ana, Calif. (Tel. KImberly 5-8241)
Purch. Agent: E. C. Fries
Sales Mgr.: A. J. Romano

AUDIO INSTRUMENT CO., INC.
135 W. 14th St., New York 11, N. Y. (Tel. ORegon 5-7820)
Sales Mgr.: C. J. LeBel

AUDIO-MASTER CORP.
17 E. 45th St., New York 17, N. Y. (Tel. OXford 7-0725)
Purch.: Herbert Rosen TR

AUGAT BROTHERS, INC.
33 Perry Ave., Attleboro, Mass. (Tel. 1-2202)
Purch.: Louis H. Young
Sales: Robert S. Laurence MM

AUSTENAL CO., DIV.-HOWE SOUND CO., MICROCAST PRODUCTS
224 E. 39th St., New York 16, N. Y. (Tel. OXford 7-5656)
Dir.-Purch.: Anne D. Repko
Sales Mgr.: R. L. Wiseman
Sales Engr.: E. L. White, Jr. MF, PS, MM, R&D

AUSTENAL INC.
224 E. 39th St., New York 16, N. Y. (Tel. OXford 7-5656)
Purch. Mgr.: A. D. Repko
Asst. Purch. Mgr.: W. Riley
Sales Mgr.: R. L. Wiseman MF, PS

AUSTIN CO., THE, SPECIAL DEVICES DIV.
76 9th Ave., New York 11, N. Y. (Tel. WAtkins 4-3630)
Purch. Agent: H. W. Hunsberger
Sales: W. G. Birkel GS, GE, TS

AUSTIN-WESTERN, CONSTR. EQUIP. DIV.-BALDWIN-LIMA-HAMILTON CORP.
601 N. Farnsworth Ave., Aurora, Ill. (Tel. 7-8753)
Dir.-Purch.: J. D. McMakin
Asst. Gen. Mgr.-Sales: H. P. Lockhart GS, GH

AUTO SPECIALTIES MFG. CO., INC.
St. Joseph, Mich. (Tel. YUkon 3-2521)
Dir.-Procurement: E. Millhouse
Asst. Dir.-Procurement: C. Miller
Buyers: E. Luhrs, K. Bingham, O. Pallas & D. Schuhknecht PS, GS, GH, R&D

AUTO-CONTROL LABS., INC.
333 S. Hindry Ave., Inglewood 1, Calif. (Tel. ORegon 8-4934)
Chief Engr.: Bob Lieberman
Engr. (Environmental Sec.): Chuck R. Knokey
MF, PS, GS, GH, GE, TS

AUTOMATIC ELECTRIC SALES CORP.
Northlake, Ill. (Tel. FIllmore 5-7111)
Gen. Purch. Agent: W. S. Cadwell
Pres.: D. H. Deaver GS, GH, GE, CO, TS

AUTOMATIC SWITCH CO.
Hanover Rd., Florham Park, N. J. (Tel. FRontier 7-4600, New York City-DIgby 4-3765)
Purch. Agent: Harold W. Hyland
V. P.-Valve Sales: R. F. McCormick
V. P.-Switch Dept.: F. P. Spinelli GS

AUTOMATION DYNAMICS CORP.
255 County Rd., Tenafly, N. J. (Tel. LOwell 7-3232)
Purch. Agent: Mrs. Dorothy Suhre
Sales: Richard A. Bolz TS, TR, R&D

AUTOMATION INSTRUMENTS INC.
401 E. Green St., Pasadena, Calif. (Tel. SY 3-8169)
Purch. Agent: Wes Seeley (Tel. RY 1-6311)
Sales Mgr.: Robert Shafer (Tel. RY 1-6311) TS, TR

AUTOMATION PRODUCTS, INC.
3030 Max Roy St., Houston 24, Tex. (Tel. UN 9-1485)
Purch. Agent: Quin M. Baker

AUTOMETRIC CORP.
1501 Broadway, New York, N. Y. (Tel. BRyant 9-8700)
Purch. Agent: William Matzen

AUTOMOTIVE & AIRCRAFT DIV.-AMERICAN CHAIN & CABLE CO., INC.
601 Stephenson Bldg., Detroit 2, Mich. (Tel. TRinity 5-4104)
Purch.: H. C. Wenpelcke, Adrian, Mich.
V. P.-Sales Mgr.: Harry Williams GH, GE, TS

AUTONETICS, DIV.-NORTH AMERICAN AVIATION, INC.
9150 E. Imperial Hwy., Downey, Calif. (Tel. SPruce 3-2233)
Material Dir.: C. R. Raftery, 201 W. Manville St., Compton, Calif. (Tel. NEwmark 2-5721)
Purch. Agent: S. D. Zemansky, Compton, Calif.
Dir.-Mktg.: Charles A. Wolf
MF, PS, GS, GH, GE, CO, TS, TR

AUTOTRON, INC.
3629 N. Vermilion St., Danville, Ill. (Tel. 650)
V. P.-Purch.: M. Gieseke PS, GH, GE, CO, TS, TR

AUTOTRONICS INC.
Box 208, Florissant, Mo. (Tel. TEmple 7-3565)
V. P.-Purch. & Sales: E. F. White
Production Mgr.: A. F. Boous
Chief Engr.: C. A. Jackson
Pres.: A. J. Thompson GS, GE, TR, R&D

AUTO-VALVE INC.
12 Malden Ave., Dayton 27, O. (Tel. AMherst 3-8273)
Pres.: Anthony P. Barcus GS, GH, R&D

***AVCO MFG. CORP., CROSLEY DIV.**
1329 Arlington St., Cincinnati, Ohio (Tel. KIrby 1-6600)
Dir. Purch.: A. J. Verax
Gen. Sales Mgrs.: T. J. Michel (Bomber Defense System & Communic.), L. E. Benitez (Space Missiles, Ordnance), E. Hopley (Radar & Air Traffic Control) WN, GS, GE, CO, TS, TR, R&D
*(See 3rd Cover for Advertisement)

***AVCO MFG. CORP., NASHVILLE DIV.**
Nashville 1, Tenn. (Tel. ALpine 4-9551)
Purch. Agent: D. C. Hergert
Gen. Mktg. Mgr.-Structures: Henry Ritter
V. P.-Mktg., Defense Products: Dr. L. C. Maier, Jr.
MM, R&D
*(See 3rd Cover for Advertisement)

***AVCO RESEARCH LAB., DIV.-AVCO MFG. CORP.**
2385 Revere Beach Parkway, Everett, Mass. (Tel. DUnkirk 9-2300)
Purch. Agent: Harold Bloom
Exec. Asst. to Dir.: F. C. Durant, III **R&D**
*(See 3rd Cover for Advertisement)

AVIATION DEVELOPMENTS INC.
210 S. Victory Blvd., Burbank, Calif. (Tel. VIctoria 9-4631)
Dir.-Purch.: John R. Moger
Dir.-Sales: James D. Santacroce
MF, GS, GH, TS, MM, R&D

AVIATION TEXTILE ASSOCIATES
17180 Wyoming, Detroit 21, Mich. (Tel. UN 2-3565)
V. P.-Purch.: E. A. Thomson
Pres.: W. T. Greig

AVIATORS EQUIPMENT CORP.
143 Main St., Beacon, N. Y. (Tel. BEacon 1570)
Pres.: John E. Liebmann
Purch. Agent: John H. Duffy

AVICA CORP.
Newport, R. I. (Tel. VIking 6-9100)
Purch. Mgr.: D. J. Mulholland
V. P.-Chief Sales Engr.: R. S. Weiss
MF, PS, GS, GH

AVIEN, INC.
58-15 Northern Blvd., Woodside 77, N. Y. (Tel. YEllowstone 2-4600)
Mgr.-Purch.: Clifford Napolitano
Mktg. Mgr.: H. H. Georgens **GS, CO, R&D**

AVION DIV., ACF INDUSTRIES, INC.
11 Park Place, Paramus, N. J. (Tel. COlfax 1-4100)
Purch. Agent: Warren Guy **GS, GE, CO, TR, R&D**

AVION FOUNDRY CORP.
P. O. Box 395, Tarpon Springs, Fla. (Tel. VIctor 2-6633)
Pres.: E. R. Huneke
MF, WN, PS, GS, GH, GE, TR, MM

AVIONICS RESEARCH CORP.
111 E. Colonial Dr., Orlando, Fla. (Tel. GA 5-0547)
Gen. Mgr.: Alan Drucker **GS, GE**

AVNET CORP.
5877 Rodeo Rd., Los Angeles 16, Calif. (Tel. TExas 0-6141)
Purch. Agent: Norman Karchem
Sales Mgr.: M. G. Newberger **MF, GS, GH**

AVO LTD.
80 Shore Rd., Port Washington, N. Y. (Tel. PO 7-7700)
Dir.-Sales: Si Bosworth

AVONDALE CO., THE
260 Happ Rd., Northfield, Ill. (Tel. AMB 2-0342)
Purch.: Paul Manning
Sales: H. N. Limback **MF, WN, PS, GS, GH, GE**

AVTRON MFG., INC.
10409 Meech Ave., Cleveland 5, Ohio (Tel. MI 1-8310)
Purch. Agent: Thomas Sulzberger **GS, CO**

AXEL ELECTRONICS
134-20 Jamaica Ave., Jamaica, N. Y. (Tel. REpublic 9-1700)
Purch. Agent: Robert H. Elkes
Asst. Purch. Agent: Bernard Gollop
Sales Mgr.: Joseph P. O'Donnell **GE, TR**

AXLER ASSOCIATES INC.
102-42 43rd Ave., Corona 68, N. Y. (Tel. HAvemeyer 9-7718)
Purch. Agent: K. Hillman
Sales: M. Axler **TR, R&D**

B. & C. INSULATION PRODUCTS, INC.
490 Lincoln Hwy., Iselin, N. J. (Tel. LIberty 8-0815)
Gen. Mgr.: Bernard Sherman **MF, PS**

B & F INSTRUMENTS, INC.
3644 N. Lawrence St., Philadelphia 40, Pa. (Tel. GA 5-4175)
V. P.-Purch.: C. E. Stufflebeam
Chief Purch. Clk.: B. Snyder **TS, TR, R&D**

B G CORP., THE
321 Broad Ave., Ridgefield, N. J. (Tel. WHitney 5-8800)
Purch. Agent: Melville Miller
Dir.-Sales & Engrg.: Robert W. Brattvet
MF, WN, PS, GH, TR

B. H. AIRCRAFT CO., INC.
Eastern Parkway at Maplewood Ave., Farmingdale, L. I., N. Y. (Tel. CHapel 9-5000)
V. P.-Purch.: Donald F. Baum **MF, PS**

B & H INSTRUMENT CO., INC.
3479 W. Vickery Blvd., Fort Worth, Tex. (Tel. EDison 6-7243)
Purch. Agent: Dwight Adams
Sales Mgr.: Leon H. Becker **CO, TS**

BJ ELECTRONICS, BORG-WARNER CORP.
3300 Newport Blvd., Santa Ana, Calif. (Tel. KImberly 5-5581)
Purch. Agent: H. E. Schuyler
Sales Mgr.: H. G. Ayers **GS, GH, CO, TS, TR, R&D**

B & K INSTRUMENTS, INC.
3044 W. 106th St., Cleveland 11, Ohio (Tel. CLearwater 1-8430)
Office Mgr.: Robert E. Madden
Pres.: James W. Day **TS**

BABCOCK RADIO ENGRG., INC.
1640 Monrovia Ave., Costa Mesa, Calif. (Tel. LIberty 8-7705)
Purch. Agent: Russell Clifton
Dir.-Materiel: Richard T. Liggett
Buyers: Robert Moore, Chas. E. Wilson, Carl Bewlan, Jess Hardy
Asst. V. P.-Sales Engrg.: Norman E. Cima **GE, TS**

BABCOCK RELAYS, INC.
1640 Monrovia Ave., Costa Mesa, Calif. (Tel. LIberty 8-7705)
Dir.-Material: Richard Liggitt
Purch. Agent: Russ Clifton
V. P.-Sales: Carl L. Martin

BABCOCK & WILCOX CO., TUBULAR PRODUCTS DIV.
Beaver Falls, Pa. (Tel. Beaver Falls 2100)
V. P.: J. S. Anderson **MF, PS**

SEMON BACHE & CO.
636 Greenwich St., New York 14, N. Y. (Tel. WA 4-2121)
Purch.: Henry Del Tosto
Sales: B. Newton **MF, PS, GE**

BACON INDUSTRIES, INC.
192 Pleasant St., Watertown 72, Mass. (Tel. WAtertown 4-5000)
Purch. Agent: Kenneth H. Barton
Sales Mgr.: Eldon H. Fay **MF, WN, PS**

BADGER DIE CASTING CORP.
201 W. Oklahoma Ave., Milwaukee 7, Wis. (Tel. SH 4-6643)
V. P.: Lyle Tuchel **MM**

BADGER MFG. CO.
363 Third St., Cambridge 42, Mass. (Tel. UNiversity 4-9800)
Purch. Agent: T. J. Earley
Buyers: E. L. Turner, J. C. Mannix, G. H. Horn, Jr., J. J. Duggan
V. P.-Sales: W. C. Rousseau

N. S. BAER CO.
1-11 Montgomery St., Hillside, N. J. (Tel. MUrdock 8-2250)
Office Mgr.: P. J. Stec
Sales Mgr.: S. W. Nette **MF, WN, PS**

BAIRD-ATOMIC, INC.
33 University Rd., Cambridge 38, Mass. (Tel. UNiversity 4-7420)
Purch. Agent: John B. Milliken
Sales Mgr.: F. L. Foster **GE, TS, TR, R&D**

J. T. BAKER CHEMICAL CO.
N. Broad St., Phillipsburg, N. J. (Tel. GLencourt 4-2151)
Dir.-Purch.: John L. Zapf
Buyers: John R. Herd, Thomas W. Mohr, R. H. M. Meir
V. P.-Sales: Ralph A. Clark

BAKER INDUSTRIAL TRUCKS, DIV.-OTIS ELEVATOR CO.
8000 Baker Ave., Cleveland, Ohio (Tel. OLympic 1-3000)
Purch. Agent: E. W. Sankey
Asst. Purch. Agents: Joseph Petras, K. W. Keyerleber
Gen. Sales Mgr.: Robert J. Laws
Sales Prom. Mgr.: Russell A. Moore **GS, GH, R&D**

BAKER PERKINS INC.
1000 Hess St., Saginaw, Mich. (Tel. PLeasant 2-4121)
Purch. Agent: R. F. Byrne
V. P.-Sales: K. A. Mack
Asst. Sales Mgr.: W. D. Chapman **PS**

BAKER STEEL & TUBE CO.
1540 Calzona St., Los Angeles 23, Calif. (Tel. ANgelus 3-7231)
Asst. Gen. Mgr.: C. L. Baker
Sales Mgr.: H. E. Byerrum **MM**

BALCO RESEARCH LABS., INC., CAPACITOR DIV.
49-53 Edison Place, Newark, N. J. (Tel. MItchell 3-5200)
Purch.: Bob Nobel **GE, TR**

***BALCRANK INC., MACHINE TOOL DIV.**
Disney St., Cincinnati, Ohio (Tel. RE 1-7200)
Purch. Agent: E. M. Flennery
Sales Admin.: J. A. Weiss **GS, MM**
*(See Page 71 for Advertisement)

BALDWIN MFG. CO. INC., THE
140 Homer St., Waterbury, Conn. (Tel. PLaza 6-5561)
Pres.: Francis V. Gulio

BALDWIN PIANO CO., THE, INDUSTRIAL PRODUCTS DIV.
1801 Gilbert Ave., Cincinnati 2, Ohio (Tel. MA 1-4300)
Dir.-Purch.: F. X. Shannon
Dir.-Industrial Sales: John Rotte **GS, GE, TR, R&D**

BALDWIN-LIMA-HAMILTON CORP., ELECTRONICS & INSTRUMENTATION DIVS.
42 4th Ave., Waltham 54, Mass. (Tel. TW 4-6700)
Purch. Agent: R. A. Welch
Asst. Purch. Agent: R. Lepore
Buyers: C. W. Jiggetts, G. A. Chadwell & R. Lauranzano
Gen. Sales Mgr.: William Kerr
PS, GS, GH, CO, TS, TR

BALL MACHINE PRODUCTS CO., THE
82 Fillmore St., New Haven 11, Conn. (Tel. STate 7-2776)
Sales Mgr.: R. Lane
Buyers: Eric T. Ball, R. B. Ball

BALLANTINE LABS., INC.
Boonton, N. J. (Tel. DEerfield 4-1432)
V. P.-Purch.: Frank R. Zayac **TS, R&D**

BALLASTRAN CORP.
1701 N. Calhoun St., Fort Wayne 7, Ind. (Tel. EAstbrook 2285)
Purch.: H. L. Matthias
Chief Engr. & Gen. Mgr.: Wm. Weir
Buyer: Howard D. Carr **TR**

BALLYMORE CO.
Lincoln & Garfield Aves., West Chester, Pa. (Tel. OWen 6-3250)
Gen. Mgr.: William B. Hart
Sales Mgr.: Harry G. Westerfield **GS, GH**

BALTEAU ELECTRIC CORP.
P. O. Box 385, 5 New St., Stamford, Conn. (Tel. DA 4-6118)
Div. Mgr., X-Ray Sales: Fred C. Sarchet
V. P.-Purch.: M. Marechal **TS**

BANNER INDUSTRIES
9501 Inkster Rd., Taylor, Mich. (Tel. WH 1-9800)
Purch. Agent: Richard Olesak
Sales Mgr.: Tom MacDonald

BAR WORK MFG. CO., INC.
1198 Highland Ave., Waterbury, Conn. (Tel. PLaza 3-4103)
Office Mgr.: Floyd Bird
Pres.: Charles H. June, Jr.

ALFRED W. BARBER LABS.
32-44 Francis Lewis Blvd., Flushing 58, N. Y. (Tel. IN 3-3306)

BARBER-COLMAN CO.
1411-3 Rock St., Dept. Q, Rockford, Ill. (Tel. WOodland 8-6833)
Purch. Agent: D. R. Farquhar
Sales Mgr.: Aircraft Controls Div.: R. A. Baird
Sales Mgr., Electrical Components Div.: W. F. Tice
PS, GS, GE, TS, TR

BARCO MFG. CO., INC.
566 N. Hough St., Barrington, Ill. (Tel. DUnkirk 1-1700)
Purch. Agent: W. F. Donaldson
V. P.'s: J. O. Heyworth, F. M. Moore **PS, GS, GH**

BARDEN CORP., THE
33 E. Franklin St., Danbury, Conn. (Tel. Pioneer 3-3885)
Purch. Agent: W. R. Ferguson
Buyer: K. A. Taylor
V. P.-Sales: Alphe G. Jarreau **PS, GS, GE**

BARIUM & CHEMICALS, INC.
Lake Co. Nat. Bank Bldg., Willoughby, O. (Tel. WI 2-5151)
V. P.-Chg. of Purch.: Douglas Naylor
V. P.-Sales & Adv.: Albert Pavlik, Jr. **PS, MM**

CODING

Missile Frame	MF
Warhead & Nose Cone	WN
Propulsion System	PS
Ground Support	GS
Ground Handling	GH
Guidance Equipment	GE
Checkout Equipment	CO
Test Equipment	TS
Tracking & Telemetering	TR
Research & Development	R&D
Materials & Metals	MM

BARKER SALES CO.
339 S. Broad Ave., Ridgefield, N. J. (Tel. WHitney 3-2477)
Purch.: J. Donovan
Sales Mgr.: T. R. Sheron
Sales: T. R. Cox — **GS, GE, TR**

BARKER & WILLIAMSON INC.
Bristol, Pa. (Tel. STillwell 8-5581)
Purch. Agent: Joseph Fattorini
V. P.-Sales: J. C. Pearce

BARKSDALE VALVES
5125 Alcoa Ave., Los Angeles 58, Calif. (Tel. LUdlow 7-6181)
Purch. Agent: H. Lembke
Gen. Mgr. & V. P.-Sales: M. C. Nelson — **GS, GH, TS, R&D**

BARNEBEY-CHENEY CO.
Eighth Ave. & North Cassady, Columbus 19, Ohio

BARNES ENGRG. CO.
30 Commerce Rd., Stamford, Conn. (Tel. FIreside 8-5381)
Purch. Agent: James D. Bennett

BARNSTEAD STILL & STERILIZER CO.
2 Lanesville Terr., Boston 31, Mass. (Tel. JA 4-3100)
Purch. Agent: J. C. Mullan
Sales Mgr.: D. G. Miller — **PS, GS**

BARNUM MACHINE WORKS, INC.
200 Wooster St., New Haven, Conn. (Tel. LOcust 2-2169)
Pres.: Henry G. Halbing

BAR-RAY PRODUCTS, INC.
211 25th St., Brooklyn 32, N. Y. (Tel. SOuth 8-1020) — **TS**

LEON J. BARRETT CO., THE
1495 Grafton Rd., Worcester, Mass. (Tel. PLeasant 5-4306)
Dir.-Purch.: D. C. Page
Purch. Agent: L. E. Clark
Sales Mgr.: R. B. Ayres

W. L. BARRETT CO., THE
School St., Bristol, Conn. (Tel. LUdlow 2-7487)
Purch. Agent: M. Graham
Sales Mgr.: A. J. Levins — **MF, PS, GE, TS, TR**

BARRETT-CHRISTIE CO.
118-124 N. Clinton St., Chicago 6, Ill. (Tel. FRanklin 2-9540)
Purch. Agent: R. O. Hanson — **MM**

BARRY CONTROLS INC.
938 Pleasant St., Watertown 72, Mass. (Tel. WAtertown 3-1150)
Purch. Agent: Thomas Foster
Buyers: James Wise, James Writesel
V. P.-Mktg.: Edward A. Johnson — **MF, GS, GE, TS, R&D**

BARRY ELECTRONICS CORP.
512 Broadway, New York 12, N. Y. (Tel. WAlker 5-700)
Pres.: B. N. Gensler

BART MFG. CORP.
227 Main St., Belleville, N. J. (Tel. PLymouth 9-0200)
Purch. Agent: Edward Mangas
Buyer: Dorothy Durrigan
V. P.-Sales: L. P. Vollmuth — **R&D**

BARTON INSTRUMENT CORP.
580 Monterey Pass Rd., Monterey Park, Calif. (Tel. CUmberland 3-6501)
Purch. Agent: Sylvia Clingerman
V. P.-Sales: A. I. Thompson

BARWOOD ELECTRONICS INC.
921 E. Broadway, Glendale 5, Calif. (Tel. CHapman 5-4063) — **GS**

GEORGE BASCH CO., THE
19 Hanse Ave., Freeport, N. Y. (Tel. FReeport 8-8100)
Pres.: George Basch
Gen. Mgr.: Jerome D. Basch — **MM, R&D**

BASCO METAL PRODUCTS, INC.
7649 San Fernando Blvd., Burbank, Calif. (Tel. ROgers 7-3711)
Purch. Agent: Robert Crawford
Sales Mgr.: Don Lawrie — **MF, GS, GH**

BASIC & EXPERIMENTAL PHYSICS
Box 689, Falmouth, Mass. (Tel. KImball 8-2175)
Purch. Agent: L. Grafton
Sales Mgr.: J. A. Roberts — **R&D**

BASIC TOOL INDUSTRIES, INC.
14439 S. Avalon Blvd., Gardena, Calif. (Tel. FAculty 1-2665)
Purch. Agent: Robert F. Rigali
Asst. Purch. Agent: K. S. Frenger
Buyer: H. B. Silbert
Exec. V. P.-Sales: Robert G. Lucas — **MF, GS, GH**

BASO INC.
730 N. Jackson St., Milwaukee 1, Wisc. (Tel. BRoadway 3-5388)
Purch. Agent: G. C. Winters
Asst. Purch. Agent: F. J. Jens
Mgr.-Relay Sales: D. Weidenfeller

REX BASSETT, INC.
1314 N. E. 17th Ct., Ft. Lauderdale, Fla. (Tel. LOgan 4-3028)

BASSICK CO., THE, DIV.-STEWART-WARNER
3045 Fairfield Ave., Bridgeport 5, Conn. (Tel. FOrest 6-3671)
Dir.-Purch.: George Raiselis
Purch. Agent (Parts): Henry Burr
Dir.-Sales: W. G. Reycroft — **GS, GH**

CHRISTIE BATLAS, INDUSTRIAL SCALE MODELS
17 Irving Pl., Summit, N. J. (Tel. CR 3-8364)

***BAUSCH & LOMB OPTICAL CO.**
88459 St. Paul St., Rochester, N. Y. (Tel. LOcust 2-3000)
Purch. Agent: C. Buss
V. P.-Sales: A. K. Marsters
Mgr.-Contract Dept.: J. W. Wright — **MF, WN, PS, GS, GH, GE, CO, TS, TR**
*(See Page 95 for Advertisement)

BAY STATE ABRASIVE PRODUCTS CO.
12 Union St., Westboro, Mass. (Tel. FOrest 6-4433)
Purch. Agent: Frank A. Rossi
V. P.-Mktg.: E. L. Auker — **MM**

BEACH-RUSS CO.
420 Lexington Ave., New York 17, N. Y. (Tel. OR 9-7636)
Dir.-Purch.: S. Schmanski
V. P.-Sales: A. T. Beach — **TS, R&D**

MORRIS BEAN & CO.
Yellow Springs, O. (Tel. ROckwell 7-7301)
Dir. Purch.: D. W. Waechter
Purch. Agent: T. E. Charlton
Asst. Purch. Agent: R. E. Pollock
V. P.-Sales: R. H. Hollister — **MM**

BEARING INSPECTION, INC.
3311 E. Gage Ave., Huntington Park, Calif. (Tel. LUdlow 2-6431)
Pres. & Sales Mgr.: Charles McKnight
Purch. Agent: J. O. Butler — **MF, GS, GH, GE, CO, TS, TR, R&D**

BEARIUM METALS CORP.
Mill & Commercial Sts., Rochester, N. Y. (Tel. LOcust 2-7700)
Purch. Agent: A. E. Zielke
Sales Mgr.: B. M. Garek — **MF, PS, GE**

***BEATON & CORBIN MFG. CO., THE**
328 N. Main St., Southington, Conn. (Tel. MArket 8-3636)
V. P.: C. W. Rush, Jr. **MF, PS, GS, GH, GE, TS, TR**
*(See Page 100 for Advertisement)

BEATTIE-COLEMAN, INC.
1000 N. Olive St., Anaheim, Calif. (Tel. PRospect 4-4503)
Buyer: John Brewer
Sales Mgr.: J. A. Wilcox — **GE, CO**

W. A. BEAUCHAINE & SONS INC.
P. O. Box 127, Lakeport, N. H. (Tel. LAkeside 4-5518)
Pres.: A. D. Beauchaine
Sales Mgr.: C. C. Fernald — **GE, TR**

BEAVER GEAR WORKS, INC.
1025 Parmele St., Rockford, Ill. (Tel. WO 3-9691)
Dir.-Purch. Dept.: R. A. Zwicky
Dir.-Sales Dept.: Charles L. Kessler — **GE, TR**

BEAVER PRECISION PRODUCTS INC.
651 N. Rochester Rd., Clawson, Mich. (Tel. JOrdan 4-6547)
Purch. Agent: Edw. Smakoski
V. P.-Sales: John A. Hope — **GS, GH, GE, TS, TR**

BEAVER-ADVANCE CORP.
P. O. Box 792, Ellwood City, Pa. (Tel. PL 8-7571)
Purch. Agent: J. T. Penman
Sales Mgr.: R. B. Cooper — **GH**

BECCO CHEMICAL DIV.-FOOD MACHINERY & CHEMICAL CORP.
Station B, 34 Sawyer Ave., Buffalo, N. Y. (Tel. BEdford 8300)
Purch. Agent: Herbert J. Newman
Asst. Purch. Agent & Traffic Mgr.: Edward Wheeler
Buyer: Charles Keller
Asst. Buyer: Mrs. Lois Aichinger
Dir.-Sales: A. P. Shutts — **PS**

BECKMAN INSTRUMENTS, INC., BERKELEY DIV.
2200 Wright Ave., Richmond, Calif. (Tel. LA 6-7730)
Purch. Mgr.: Walter Day
Sales Mgr. (Test & Indsl. Instruments): John W. Scheck
Sales Mgr. (Analog Computers): Karl Sterne — **CO, TS, R&D**

BECKMAN/SCIENTIFIC & PROCESS INSTRUMENTS DIV.
2500 Fullerton Rd., Fullerton, Calif. (Tel. TRojan 1-4848)
Purch. Agent: K. A. Bruner
Mktg. Mgr.: M. K. Howlett — **GH, R&D**

BECKMAN/SPINCO DIV.
1117 California Ave., Palo Alto, Calif. (Tel. DAvenport 1-2121)
Purch. Agent: Walter Day
Acting Div. Mgr.: G. F. Clifford

BECKMAN/SYSTEMS DIV.
325 N. Muller Ave., Anaheim, Calif. (Tel. PRospect 4-5430)
Purch. Agent: L. A. Call
Buyers: D. McDowell, T. R. Novis, A. D. Pennington
Mktg. Mgr.: Frank J. Scheufele — **GS, CO, TR, R&D**

BECKMAN & WHITLEY, INC., INSTRUMENT DIV.
973 San Carlos Ave., San Carlos, Calif. (Tel. LYtell 3-7824)
Purch. Agent: R. Rader
Camera Prod.: L. R. Teeple
Meteorological Instr.: H. V. Thompson — **GE, R&D**

BECKMAN & WHITLEY, INC., MISSILE PRODUCTS DIV.
985 E. San Carlos Ave., San Carlos, Calif. (Tel. LYtell 3-7824)
Purch. Agent: J. W. Booth
Subcontracting: R. Fasoletos
Sales: C. R. Newman — **MF, WN, PS, GS, GH, GE**

BEECH AIRCRAFT CORP.
9709 E. Central, Wichita 1, Kans. (Tel. MUrray 3-4681)
Mgr.-Materials: L. E. Bowery
Asst. Mgr.-Proc.: W. R. Sullivan
Gen. Supvr.-Proc.: L. E. Huffman
Supvr.-Proc.: H. W. Deets & V. M. Melick
V. P.-Contract Admin.: James N. Lew
V. P.-Commercial Sales: Leddy Greever
V. P.-Export Sales: Michael G. Neuburger

BEEDE ELECTRICAL INSTRUMENT CO. INC.
Fisherville Road, Penacook, N. H. (Tel. PLaza 3-6362)
Purch. Agent: William F. Wall

BEEMER ENGRG. CO.
401 N. Broad St., Philadelphia 8, Pa. (Tel. WAlnut 2-0900)
Purch. Mgr.: J. M. Brower — **MM**

***BEHLMAN ENGRG. CO.**
2911 Winona Ave., Burbank, Calif. (Tel. VIctoria 9-5733)
Purch. Agent: Robert C. Danis
V. P.-Sales: J. M. Schroeder — **GS, CO, TS, R&D**
*(See Page 57 for Advertisement)

BEKINS INDUSTRIAL PACKAGING
12512 Inglewood Ave., Hawthorne, Calif. (Tel. OR 8-7213)
Gen. Mgr.: R. A. Patton
Operations Mgr.: Norman L. Johnson
Dir.-Sales & Engrg.: Noble W. Jones — **GH, GS**

BEL FUSE INC.
198 Van Vorst St., Jersey City, N. J.
Pres.: Elliot Bernstein
Dir.-Sales: H. V. Anderson — **R&D**

BELDEN MFG. CO.
415 S. Kilpatrick, Chicago 44, Ill. (Tel. ESterbrook 8-1000)
Dir.-Purch: William A. Sandy
Gen. Sales Mgr.: Les A. Thayer — **MF, PS, GS, GH, GE, CO, TS, TR**

BELFAB CORP., THE
382 Walnut St., Agawam, Mass. (Tel. STate 8-6247)
Purch. Mgr.: D. J. McCarroll
Sales Mgr.: Robert F. Harrigan — **MF, WN, PS, GS, GE, TS**

BELL AIRCRAFT CORP., AIRCRAFT DIV.
Wheatfield Plt., P. O. Box 1, Buffalo 5, N. Y.
Div. Mgr.: J. J. Domonkos
Sales & Engrg. Dir.: J. W. Rane
Works Mgr.: T. M. Nolan
Chief Engr.: G. D. Ray
Mfg. Services: R. W. Varrial
AVIONICS DIV., Wheatfield Plt., P. O. Box 1, Buffalo 5, N. Y.
Div. Mgr.: J. van Lonkhuyzen
Dir.-Engrg.: Frank Andrix
Dir.-Mfg.: W. Lawrence
SPACE FLIGHT DIV., Kenmore Plt., P. O. Box 1, Buffalo 5, N. Y. (Tel. BEdford 2373)
Div. Mgr.: William Smith

Dir.-Engrg.: R. D. Rinehart
Dir.-Mfg.: F. H. Walters
Sales Mgr.: J. R. Piselli
Programs Dir.: H. A. Ferullo
MF, WN, PS, GS, GH, GE, CO, TS, R&D

BELL AIRCRAFT CORP., NIAGARA FRONTIER DIV.
P. O. Box 1, Buffalo 5, N. Y. (Tel. Niagara Falls, BUtler 5-7851)
Dir. Procurement: Maurice J. Coughlin TR

BELL & GOSSETT CO.
8200 N. Austin, Morton Grove, Ill. (Tel. OR 3-3700)
Purch. Agent: N. Van Parys
Sales Mgr., Electronics Div.: D. J. Shea, Jr.
GS, GH, GE, TR

BELL & GOSSETT CO., MARLOW PUMPS DIV.
Box 200, Midland Park, N. J. (Tel. GIlbert 4-6900)
Purch. Agent: Miss R. K. Boyd
Govt. Sales: H. L. Kociencki
Gen. Sales Mgr.: A. F. Woods GS, GH

BELL & HOWELL CO.
7100 McCormick Blvd., Chicago 45, Ill. (Tel. AMbassador 2-1600)
Dir. Purch.: S. W. Knabe
Dir. Govt. Sales: Carl J. Stauff GE, TS, TR, R&D

BELL OIL & GAS CO.
National Bank Tulsa Bldg., Tulsa, Okla. (Tel. CHerry 2-7191)
Mgr.-Purch.: M. W. Sullivan
Sales Mgr.: L. H. Deatherage

BELL TELEPHONE LABORATORIES, INC.
463 West St., New York 14, N. Y. (Tel. CHelsea 3-1000)
V. P. & Gen. Mgr.: R. L. Helmreich

BELLOFRAM CORP.
Blanchard Rd., Burlington, Mass. (Tel. MIssion 3-9000)
Sales Mgr.: John F. Taplin
Buyer: Harold Currier PS, GE, R&D

BELMONT SMELTING & REFINING WORKS, INC.
330 Belmont Ave., Brooklyn 7, N. Y. (Tel. DIckens 2-4900)
V. P.-Purch.: Robert V. Henning
MF, WN, PS, GE, CO, TS, TR, MM

BELOCK INSTRUMENT CORP.
112-03 14th Ave., College Point, Queens, N. Y. (Tel. HIckory 5-4200)
Purch. Mgr.: Herbert Helmers
V. P.-Sales: John F. Donato
GS, GE, CO, TS, TR, R&D

BEL-TRONICS CORP.
344 Interstate Rd., Addison, Ill. (Tel. KIngswood 3-7778)
Mgr.-Purch.: Lee Belawich
Purch. Agent: Mrs. E. Wanders
Pres. & Sales Mgr.: Thomas J. Wright

BEMIS BROTHERS BAG CO.
111 N. Fourth St., Box 72, St. Louis 2, Mo. (Tel. CHestnut 1-0900) GS

BENBOW MFG. CORP.
11920 W. Jefferson Blvd., Culver City, Calif. (Tel. EX. 8-5766)
Purch. Agent: Donald R. Lange
V. P.-Sales: Wayne S. Boals GS, TS, R&D

BENDIX AVIATION CORP.
Executive Office: Fisher Bldg., Detroit 2, Mich. (Tel. TRinity 5-5000)
Pres.: M. P. Ferguson

BENDIX AVIATION CORP., ECLIPSE-PIONEER DIV.
Teterboro, N. J. (Tel. ATlas 8-2000)
Dir.-Purch.: J. Quinn
Purch. Agents: Paul Farley & R. E. Rosemund
Dir.-Sales & Serv.: J. P. Buckley
GS, GE, CO, TS, R&D

BENDIX AVIATION CORP., FRIEZ INSTRUMENT DIV.
1400 Taylor Ave., Towson 4, Md. (Tel. VAlley 3-4040)
Purch. Agent: H. J. Grady
Gen. Sales Mgr.: R. B. Stevenson WN, GS, R&D

***BENDIX AVIATION CORP., HAMILTON DIV.**
Fifth St. & Ford Blvd., Hamilton, Ohio (Tel. TWinbrook 3-6181)
Purch. Agent: D. J. MacGregor
Sales Mgr.: S. R. Craig GE
*(See Page 12 for Advertisement)

BENDIX AVIATION CORP., MONTROSE DIV.
South Montrose, Pa. (Tel. Montrose 570)
Purch. Agent: J. B. Wilson
Buyers: R. J. Pope, R. L. Kerr, J. E. Mahon & K. R. Flint
Dir.-Sales & Service: M. G. Douglas PS, GS, GE, TR

BENDIX AVIATION CORP., PIONEER-CENTRAL DIV.
Hickory Grove Rd., Davenport, Iowa (Tel. DAvenport 7-9101)
Dir.-Purch.: George Thomas
Asst. Dir.-Purch.: Vernon Dick
Sr. Buyers: Donald Patrick & William Hiegel
Buyer: Robert Lindsay
Dir.-Sales & Serv.: I. H. MacMillan
MF, WN, PS, GS, GH, GE, CO, TS, TR

BENDIX AVIATION CORP., RED BANK DIV.
Eatontown, N. J. (Tel. LIberty 2-2000)
Purch. Agent: L. Fyfe
Buyer: Wm. Rennick
Gen. Sales Mgr.: N. P. Barny
Mktg. Mgr.-Electron Tubes: J. F. Bozzelli
WN, GS, TR

BENDIX AVIATION CORP., SCINTILLA DIV.
Delaware Ave., Sidney, N. Y. (Tel. LOwell 3-9511)
Purch. Agent: W. B. Wilson
Asst. Purch. Agent: C. L. Kessler
Asst. Purch. Agent-Raw Materials & Castings: C. E. Rodgers
Asst. Purch. Agent-MRO Supp.: L. Johnson
Dir.-Sales: D. B. Morse
MF, PS, GS, GH, GE, CO, TS, TR

BENDIX AVIATION CORP., SEMICONDUCTOR PRODUCTS, RED BANK DIV.
201 Westwood Ave., Long Branch, N. J. (Tel. CApital 2-6220)
Mktg. Mgr.: Robert R. Meijer
Dir.-Purch.: L. D. Fyfe, Eatontown, N. J. (Tel. LIberty 2-2000)
Purch. Agent: Thomas Hackett, Eatontown, N. J. (Tel. LIberty 2-2000)

BENDIX AVIATION CORP., YORK DIV.
York, Pa. (Tel. 47-2611)
Purch. Agent: R. H. Moore
Chief Buyer: P. B. Gross
Sales Mgr.: T. R. Bartlett
MF, WN, PS, GS, GH, GE, CO, TS, TR

BENDIX COMPUTER, DIV.-BENDIX AVIATION CORP.
5630 Arbor Vitae St., Los Angeles 45, Calif. (Tel. Spring 6-2220)
Purch. Agent: R. J. Thelen
Sr. Buyer: M. McCafferty
Buyers: J. Brewer & R. Donovan
Dir.-Mktg.: O. P. Staderman GE, TR

BENDIX FILTER DIV., BENDIX AVIATION CORP.
434 W. Twelve Mile Rd., Madison Hgts., Mich. (Tel. JOrdan 6-2380)
Purch. Dept.: D. S. Kinsman
Buyer: Ivan Papin
Dir.-Sales: W. N. Caldwell, Jr.
Sales Mgr.: G. T. Grimstad
PS, GS, GH, GE, CO, TS, MM, R&D

BENDIX FOUNDRIES, BENDIX AVIATION CORP.
Teterboro, N. J. (Tel. ATlas 8-2000)
Foundry Mgr.: R. D. Ferguson
Foundry Purch. Agent: G. F. Cartier
Sales Mgr.: L. Eigenrauch MF, PS

***BENDIX PRODUCTS DIV., BENDIX AVIATION CORP.**
401 Bendix Dr., South Bend, Ind. (Tel. CEntral 3-4141)
Dir.-Purch.: C. E. Budd
Sales: K. L. Mulholland PS, GS, GH, CO, MM, R&D
*(See Page 47 for Advertisement)

BENDIX PRODUCTS DIV.-MISSILES, BENDIX AVIATION CORP.
400 S. Beiger St., Mishawaka, Ind. (Tel. BL 5-2111)
Dir.-Procurement: Daniel J. Youngerman
Supvr. Subcontract Section: Roger D. Weller
Asst. Purch. Agent: Fred R. Glassman
Contracts Mgr.: M. R. Ballis

BENDIX RADIO DIV. BENDIX AVIATION CORP.
E. Joppa Rd., Baltimore 4, Md. (Tel. VAlley 3-2200)
Govt. Prods. Materials Mgr.: J. L. Winchester
Govt. Prods. Sales Mgr.: E. A. King
GS, GE, CO, TR, R&D

BENDIX UTICA DIV., BENDIX AVIATION CORP.
211 Seward Ave., Utica, N. Y. (Tel. SWift 7-2500)
Dir.-Purch.: Alan J. Dodd
Senior Buyers: P. B. Huested, G. R. Didio, R. V. Douglas
Buyer: R. C. Mallory
Dir.-Sales & Service: D. S. Tilden GS, CO, TS

BENDIX-PACIFIC DIV., BENDIX AVIATION CORP.
11600 Sherman Way, N. Hollywood, Calif. (Tel. POplar 5-1010)
Dir. Purch.: R. R. Zimmerman
Asst. Dir.-Purch.: R. N. Huntoon
Electro-mechanical Sales Mgr.: C. J. Robinson
Electronics Sales Mgr.: H. D. Wilkinson
Hydraulics Sales Mgr.: J. G. Weldon
Telemetering Sales Mgr.: E. W. Copeland
GS, GH, GE, CO, TS, TR, R&D

BENSON MFG., CO., THE
1811 Agnes Ave., Kansas City, Mo. (Tel. BE 1-8300)
Dir.-Purch.: Ralph Bure
Buyers: Dick Stuessi, Lawrence Davis, Jim Mitchell, Earl Miller
Pres.: A. J. Benson MF, WN, GS, GH, MM

BENSON-LEHNER CORP.
11930 W. Olympic Blvd., Los Angeles 64, Calif. (Tel. BRadshaw 2-3484)
Head-Purch.: Everett Case
Buyers: John Dudas, Richardson Hill, George Sharp
V. P.-Appl. Engrg.: Donald B. Prell
MF, PS, GS, GH, GE, CO, TS, TR, R&D

BENTON HARBOR ENGRG. WORKS, INC.
622 Langley Ave., St. Joseph, Mich. (Tel. YUkon 3-5523)

BERGEN CARBIDE CO.
P. O. Box 531, Fair Lawn, N. J. (Tel. GRegory 1-3538)
Gen. Mgr.: Charles Openden
MF, WN, PS, GS, GE, TR

BERGEN LABS., INC.
247 Crooks Ave., Clifton, N. J. (Tel. GRegory 3-7800)
Purch. Agent: D. Mierop
Sales Mgr.: M. Hoberman TS, R&D

BERGEN WIRE ROPE CO.
11 Gregg St., Lodi, N. J. (Tel. HUbbard 7-3521)
Purch. Agent: Jack Harper
Dir.-Sales: Robert Ernst MF, GS, GH, TS

BERGER BROTHERS CO., THE
135 Derby Ave., New Haven, Conn. (Tel. MAin 4-0131)
Purch. Agent: Donald MacDonald
Assoc. Purch. Agent: Richard Wallace
Dir.-Special Prod.: Fred D. Moller
GS, GH, TS, TR, R&D

BERKSHIRE ELECTRIC CABLE CO.
River Rd., Leeds, Mass. (Tel. Northampton-JUstice 4-3853)
Treas.: Garson R. Feinstein
MF, PS, GS, GH, CO, TS, TR

BERNCO ENGRG. CORP.
2320 S. Tibbs Ave., P. O. Box 41037, Indianapolis 41, Ind. (Tel. CHapel 1-2871)
Purch. Agent & Plant Mgr.: E. F. Winterfeldt
Pres. & Sales Mgr.: Orban H. Reich GS, CO

BERYLLIUM CORP., THE
P. O. Box 1462, Reading, Pa. (Tel. WAlker 9-0781)
Purch. Agent: T. Blessing
V. P.-Sales: L. F. Boland MM, R&D

CHARLES BESELER CO.
219 S. 18th St., East Orange, N. J. (Tel. OR 6-6500)
Purch. Agent: J. Prager
Sales Mgr.: M. F. Myers GH

BEST AIRCRAFT CORP.
711 Sip St., Union City, N. J. (Tel. UNion 5-1681)
Sales Mgr.: F. Gebhardt
Gen. Mgr.: C. J. Higgins MF, GS, GH, MM

BEVA LAB., INC.
22 Parker Ave., Trenton 9, N. J. (Tel. EXport 4-4074)
Mgr.: W. Hartig
Secy.: L. A. Hartig CO, TS, R&D

JAMES G. BIDDLE CO.
1316 Arch St., Philadelphia 7, Pa. (Tel. LO 4-1620)
Purch. Agent: Lester Markham
Chief Engr.: E. B. Curdts
Sales Mgr.: P. E. Sellers TS

A. BIEDERMAN, INC.
1045 Air Way, Glendale 1, Calif. (Tel. CItrus 6-2421)
Purch. Agent: Frank A. Herle
Dir.-Sales: Herbert J. Pyle GS, CO, TS, R&D

CARL H. BIGGS CO.
1547 14th St., Santa Monica, Calif. (Tel. GR 8-0461)
Purch. Agent: G. Hert
Dir.-Sales: D. N. Lott MM

BIL-JAX INC.
Wyse Rd., Archbold, Ohio (Tel. 2045)
Purch. Agent: Wilbur M. Wyse GS, GH

CODING

Missile Frame	MF
Warhead & Nose Cone	WN
Propulsion System	PS
Ground Support	GS
Ground Handling	GH
Guidance Equipment	GE
Checkout Equipment	CO
Test Equipment	TS
Tracking & Telemetering	TR
Research & Development	R&D
Materials & Metals	MM

BILLINGS & SPENCER CO., THE
1 Laurel St., Hartford, Conn. (Tel. JAckson 7-5181)
Purch. Agent: Wm. V. Pilon
Sales Mgr., Spec. Forgings Div.: E. A. Crocker MM

BINKLEY MFG. CO.
Warrenton, Mo. (Tel. GLadstone 6-3455)
Purch. Agent: M. D. Coleman
Gen. Sales Mgr.: Frank A. Bornmann

BIO-RAD LABS.
32nd & Griffin Ave., Richmond, Calif. (Tel. BEacon 4-4130)
Purch. Agent: A. S. Klein
Sales Mgr.: David Schwartz MM, R&D

BIOS LABS., INC.
17 W. 60th St., New York 23, N. Y. (Tel. PLaza 7-8171)
Asst. Dir.-Purch.: H. Brodie
Dir.-Sales: Fred Linsker MF, WN, PS, GS, TS, TR

RICHARD H. BIRD & CO., INC.
1 Spruce St., Waltham 54, Mass. (Tel. TWinbrook 4-0160)
Supt.: C. F. Whittemore GE, TR

BIRDAIR STRUCTURES, INC.
290 Larkin St., Buffalo 10, N. Y. (Tel. MOhawk 6520)
Purch. Agent: Warren K. Horey
Sales Mgr.: Alvin C. Smith

BIRMA MFG. CO. INC.
525 Hertel Ave., Plant #1, Buffalo, N. Y. (Tel. VIctory 7000)
Purch. Agent: Dan West
Sales Mgr.: George H. Nelson MM, R&D

BIRNBACH RADIO CO., INC.
145 Hudson St., New York 13, N. Y. (Tel. WAlker 5-6980)
Sales Mgr.: Aaron D. Danziger
Pres.-Purch.: M. Birnbach MM

BIRTCHER CORP., THE
4371 Valley Blvd., Los Angeles 32, Calif. (Tel. CApitol 2-9101)
Purch. Mgr.: Mrs. Jessie Matranga
Sales Mgr., Indsl. Div.: Charles F. Booher TR

J. BISHOP & CO., PLATINUM WORKS
E. King St., Malvern, Pa. (Tel. Niagara 4-3100)
Dir.-Purch.: J. Cortez
V. P.: J. J. Buckley
Sales Coordinator: H. S. Roberts
Mgr., Platinum Divs.: Lee Moules
MF, WN, PS, TS, MM, R&D

BISHOP MFG. CORP.
10 Canfield Rd., Cedar Grove, N. J. (Tel. CEnter 9-2400)
Purch. Agent: Mrs. Alice F. Cook
Sales Mgr.: F. X. McCormack

BJORKSTEN RESEARCH LABS. FOR INDUSTRY, INC.
P. O. Box 1175, Madison 1, Wis. (Tel. ALpine 6-5581)
Purch. Agent: David B. Bennett
V. P.-Sales: James E. Henning R&D

BLACK & DECKER MFG. CO., THE
E. Pa. Ave., Towson 4, Md. (Tel. VA 3-4400)
Purch. Mgr.: Alex Dahl
V. P.-Mktg.: R. G. Horner GS, GH

BLACK, SIVALLS & BRYSON, INC.
7500 E. 12th St., Kansas City 26, Mo. (Tel. BEnton 1-7200)
V. P.-Purch.: William F. Gates
Mgr., Safety Head Sales: James F. Myers
PS, GS, GH, TS, R&D

BLACKHAWK MFG. CO.
5325 W. Rogers St., Milwaukee 46, Wisc. (Tel. ORchard 1-4000)
Purch. Agent: T. A. Clark
Buyers: R. C. Newman, E. F. Larsen
Mgr.-Dist. Sales: Wes Kiley MF, GH, MM

BLACKMER PUMP CO.
1809 Century Ave., S. W., Grand Rapids 9, Mich. (Tel. CHerry 1-1611)
Purch. Agent: Darcey Mahan
Dir.-Sales: E. H. Lanthorn PS, GS, GH

BLACKSTONE CORP.
1111 Allen St., Jamestown, N. Y. (Tel. 5-1121)
Dir.-Purch.: J. P. Milham
Products Mgr.: G. A. Gustafson

BLACO MFG. CO.
6541 Euclid Ave., Cleveland 3, O. (Tel. EXpress 1-0497)
Purch.: S. J. Haretik MF, WN, GS, GH, GE, TR

WHITNEY BLAKE CO.
1565 Dixwell Ave., New Haven 14, Conn. (Tel. CHestnut 8-5515)
Purch. Agent: D. C. McKean
Gen. Sales Mgr.: R. H. Beisswenger
GE, CC, TS, TR, MM, R&D

ERNEST E. BLANCHE & ASSOCIATES, INC.
10425 Fawcett St., Kensington, Md. (Tel. LOckwood 4-7527)
Chief-Purch.: Mrs. Irene Van Yuga TR, R&D

BLAND BURNER CO., THE
83 Woodbine St., Hartford 6, Conn. (Tel. CHapel 9-8651)
Purch. Agent: Jerry Glassman
Sales Mgr.: Joel Livingston MM

BLAW-KNOX EQUIPMENT, DIV.-BLAW-KNOX CO.
P. O. Box 1198, Pittsburgh 1, Pa. (Tel. STerling 1-2700)
Div. Purch. Agent: Phillip H. Rollings
Gen. Sales Mgr.: H. Russell Loxterman GE, TR

E. W. BLISS CO.
1375 Raff Rd., S. W., Canton, Ohio (Tel. GReenwood 7-3421)
Purch. Mgr.: F. R. Mayer
Buyers: W. B. Boyd, G. W. Baker, J. M. Baylor, J. Tucker
Sales Mgr.-Govt. Contracts: R. E. Reilly
MF, WN, PS, GS, GH

BLISS ELECTRONIC CORP.
Box 366, Sussex, N. J. (Tel. SUssex 2-3000)
Dir.-Purch.: Gilbert Coates
Dir.-Sales: Robert Kaiser GS, TS

BLONDER-TONGUE LABS., INC.
9 Alling St., Newark 2, N. J. (Tel. MArket 2-8151)
Purch. Agent: David Rubin
Asst. Purch. Agent: John Fahey
Component Purch.: George Faccone
Govt. Sales Mgr.: Irv Faye
Sales Mgr.: Joseph H. Kerner GE, TR, R&D

BLOOMINGDALE RUBBER CO.
Roosevelt & Grant Aves., Aberdeen, Md. (Tel. Aberdeen 2050)
Prod. Mgr.-Purch. Dept.: LaVerne R. Britton, R. #40 & Plater St., (Tel. Aberdeen 2370)
Chief Engr.-Sales: R. B. Krieger, Jr. (Tel. Aberdeen 2050) MM

BLOSSOM MFG. CO. INC.
2337 McDonald Ave., Brooklyn 23, N. Y. (Tel. DEwey 6-5555)
Dave Schoenfeld MF, PS

BLOWERS INC.
12655 S. Western Ave., Blue Island, Ill. (Tel. FUlton 8-3060)
Purch. Agent: S. A. Witte MF, WN, GS, GH, CO

BLUE M ELECTRIC CO.
138th & Chatham St., Blue Island, Ill. (Tel. FUlton 5-9000)
Purch. Agent: W. F. Wilde
V. P.-Sales: Angelo Lazzara TS, R&D

BOBRICK MFG. CORP.
1839 Blake Ave., Los Angeles 39, Calif. (Tel. NOrmandy 2-3188)
Purch. Agent: R. L. Blough
V. P.-Sales: Arnold A. Cowan R&D

BODINE ELECTRIC CO.
2500 W. Bradley Pl., Chicago 18, Ill. (Tel. IR 8-3515)
Exec. V. P.-Purch.: E. W. Larson
Asst. Purch. Mgr.: H. G. Anderson
Sales Mgr.: W. M. Yogerst PS, GE, TS, TR

BOEING AIRPLANE CO., PILOTLESS AIRCRAFT DIV.
Seattle, Wash. (Tel. JUniper 6-2121)
Materiel Mgr.: N. W. Grigg (Tel. MU 2-1760)
Sales Mgr.: Fred Young (Tel. JU 6-4611)
MF, GS, GH, GE, CO, TS, TR, R&D

BOGART MFG. CORP.
315 Seigel St., Brooklyn 6, N. Y. (Tel. HY 7-4972)
Supvr.: H. Schoenfeld
Purch. Agents: W. Edgar & A. Levinson
Expeditor: R. Goldberg
Mgr.-Engrg. Sales: Lee N. Blatt R&D

BOGEN-PRESTO CO., DIV.-THE SIEGLER CORP.
P. O. Box 500, Paramus, N. J. (Tel. DIamond 3-5700)
Dir.-Purch.: Abe Morin
Purch. Agents: Ted Neher, Paul Lesh, Jim Gaddy
Sales Mgrs.: M. S. Sumberg & T. L. Aye

BOGUE ELECTRIC MFG. CO.
52 Iowa Ave., Paterson 3, N. J. (Tel. LAmbert 5-2200)
Purch. Agent: Miss A. Schinman
Purch. Dept.: J. Whitcomb
Sales Mgr.: Joseph Rambusek WN, PS, GS, GH, CO

BOMAC LABORATORIES, INC.
Salem Rd., Beverly, Mass. (Tel. WAlker 2-6000)
Purch. Agent: William H. Gyson
Buyer-Microwave Components: Dexter W. Rundlett
Buyer-Prod. Machine Parts: George W. Pickering
Buyer-Engrg. Machine Parts: John P. White
Sales Mgr.: E. D. Benson TR, R&D

BOND METAL SURPLUS CO.
321 Canal St., New York 13, N. Y. (Tel. CA 6-2928)
Sales Mgr.: Jack Cooper MM

BONNY MFG. CORP.
146 Main St., Maynard, Mass. (Tel. TWin Oaks 7-9311)
V. P.-Sales: John A. Crowe TR

BOOKER-COOPER, INC.
6940 Farmdale Ave., North Hollywood, Calif. (Tel. ST 7-7105)
Sales Dir.: Roy Smith MF, PS, GH, GE, MM

BOONTON RADIO CORP.
50 Intervale Rd., Boonton, N. J. (Tel. DEerfield 4-3200)
Purch. Agent: R. W. Laughlin
Sales Mgr.: H. J. Lang TR

BOOTH FELT CO., INC., THE
1724 10th Ave., Brooklyn 15, N. Y. (Tel. STerling 8-5700)
Purch. Agent: Harold T. Kenyon MM

BOOTS AIRCRAFT NUT CORP.
Newtown Turnpike, Norwalk, Conn. (Tel. VIctor 7-2446)
Purch. Agent-Material: A. T. Carlson
Purch. Agent-Gen.: C. A. Milton
Sales Mgr.: Frank Lown MF, PS, GS, GE

BORDEN CHEMICAL CO.
350 Madison Ave., New York 17, N. Y. (Tel. MUrray Hill 7-4100)
Purch. Agent: Wayland P. Morse
Chem. P. A.: Richard J. Magner
Exec. V. P.-Sales: E. J. Sullivan MM, R&D

BORDEN CHEMICAL CO., THE RESINITE DEPT.
P. O. Box 1589, 436 E. Gutierrez St., Santa Barbara, Calif. (Tel. WOodland 3134)
Purch. Agent: Robert W. Hull
Purch.: H. L. Bartlett, 1 Clark St., North Andover, Mass. (Tel. MUrdock 7-7131)
MF, WN, PS, GE, TS, TR

BORG EQUIPMENT DIV., AMPHENOL-BORG ELECTRONICS CORP.
120 S. Main St., Janesville, Wisc. (Tel. PLeasant 4-6616)
Sales Mgr.: R. K. Johnson GS, GE

BORG-WARNER CORP.
200 S. Michigan Ave., Chicago 4, Ill. (Tel. WA 2-7700)
Pres. & Chief Exec.: Robert S. Ingersoll

GEORGE C. BORTHIG CO. INC.
242 Paterson Ave., P. O. Box 115, East Rutherford, N. J. (Tel. WEbster 9-9260)
Purch. Agent: David M. Kelly

BOSTON AUTO GAGE CO., THE
70 West St., Pittsfield, Mass. (Tel. HIllcrest 5-5691)
Purch. Agent: J. H. Mattoon
Sales: T. C. Nelson GS, GH

BOSTON FELT CO.
210 South St., Boston, Mass. (Tel. LIberty 2-8897)

BOSTON GEAR WORKS
14 Hayward St., Quincy 71, Mass. (Tel. PResident 3-0400)
Purch. Agent: William MacRae
Mgr.-Field Sales: William J. Johnson
Mgr.-Inside Sales: Edward P. Williams

BOSTON INSULATED WIRE & CABLE CO.
64 Bay St., Boston, Mass. (Tel. COlumbia 5-2104)
Purch. Agents: Alden C. Davis, Hachig Aghjayan
GS, GH

BOULIN INSTRUMENT CORP.
10 First St., Pelham, N. Y. (Tel. PElham 8-3966)

BOUND BROOK OIL-LESS BEARING CO.
Bound Brook, N. J. (Tel. ELliot 6-0441)
Purch. Agent: Charles Durlach
Sales Mgr.: S. S. Connor MF, WN, PS, GH, GE

BOURNS LABS., INC.
6135 Magnolia Ave., P. O. Box 2112, Riverside, Calif. (Tel. OVerland 4-1700)
Purch. Agent: Brad Stevens
Dir.-Sales (Trimpot Div.): D. P. Vaughan
Dir.-Sales (Instrument Div.): E. J. Goeppinger
Pres.: Marlan E. Bourns

BOW SOLDER PRODUCTS CO., INC.
251 Freeman St., Brooklyn 22, N. Y. (Tel. EVergreen 9-4863)
Purch. Agent: S. Turkus, Jr.
Sales Mgr.: N. Zimmer MF, PS, GE, TR

BOWER ROLLER BEARING DIV.
3040 Hart, Detroit 14, Mich. (Tel. VA 2-7300)
Purch. Agent: Charles Heller
Mgr.-Sales: S. E. Davidson

BOWERS BATTERY & SPARK PLUG CO.
P. O. Box 1262, Reading, Pa. (Tel. WAlker 9-0771)
Purch. Agent: Harold L. Deprill
Sales: Paul E. Goodrich **GS**

BOWMAR INSTRUMENT, CORP.
8000 Bluffton Rd., Box 2835, Ft. Wayne, Ind. (Tel. SHerwood 3121)
Purch. Agent: Robert J. Stratman
Gen. Sales Mgr.: George F. McCarthy, Great Neck, N. Y. (Tel. HUnter 2-1750)
PS, GS, GH, GE, CO, TS, TR

BOWSER, INC., DEFENSE DEPT.
1302 E. Creighton Ave., Ft. Wayne, Ind. (Tel. HArrison 2341)
Dir.-Purch.: E. A. Steinhauser
Sales Admin.: D. D. Seely **GS, GH, R&D**

BRACH MFG. CORP., DIV.-GENERAL BRONZE
200 Central Ave., Newark, N. J. (Tel. HUmboldt 2-1500)
Dir.-Purch.: H. Staple
Specialist Buyers: F. Werner & P. Marino
Mktg. Mgr.: J. Keough
Dir.-Sales: J. Berger **GS, TR**

BRACKE-SEIB X-RAY CO., INC.
16 Pelham Bay Park West, Pelham Manor, N. Y. (Tel. PElham 8-4346)
Pres.-Sales Mgr.: Edward H. Bracke
Buyer: William R. Muller

BRADFORD COMPONENTS, INC.
65 South Ave., Salamanca, N. Y. (Tel. 2340)
Pres.: F. G. Schermerhorn **GE, TS, TR**

BRADLEY SEMICONDUCTOR CORP.
275 Welton St., New Haven, Conn. (Tel. SP 7181)
Purch. Agent: Stewart Wackel
Gen. Sales Mgr.: William J. Gagnon **TS, TR**

W. H. BRADY CO.
727 W. Glendale Ave., Milwaukee 9, Wisc. (Tel. EDgewood 2-8100)
Purch. Agent: Eldon Meier
V. P.-Sales: T. W. Wise **MM**

C. S. BRAININ CO.
320 Washington St., Mt. Vernon, N. Y. (Tel. 8-5500)
Production Mgr.: G. V. Plachy
Engrg. Salesman: D. A. Calder

BRAM METALLURGICAL CHEMICAL CO.
820 65th Ave., Philadelphia 26, Pa. (Tel. WAverly 4-2121)
Metallurgical-Chemical Exec.: H. H. Bram
Asst.: T. G. Bram **MM**

WILLIAM BRAND & CO., INC.
North St., Willimantic, Conn. (Tel. HArrison 3-6301)
Purch. Agent: J. R. Garey
Supvr.-Materials & Planning: C. J. Crawford
MRO Buyer: P. Daly
Sales Mgr.: T. M. Sanden **MM**

BRANSON CORP.
41 S. Jefferson Rd., Whippany, N. J. (Tel. TUcker 7-1100)
Purch. Agent: C. H. Tuttle
Sales Mgr.: C. G. Braun

BRANSON INSTRUMENTS, INC.
37 Brown House Rd., Stamford, Conn. (Tel. DAvis 4-6721)
Purch. Officer: Celso Biagini
Pres.: Peter K. Bloch
Sales Mgr.: John E. Babbin **TS**

BRANSON ULTRASONIC CORP.
37 Brown House Rd., Stamford, Conn. (Tel. FIreside 8-7781)
Gen. Mgr.-Purch.: W. J. Bleistein
V. P.: Peter K. Bloch
Sales Mgr.: H. F. Osterman **GS, GH**

BREEZE CORPORATIONS, INC.
700 Liberty Ave., Union, N. J. (Tel. MUrdock 6-4000)
Purch. Agent: R. Fuller
Gen. Sales Mgr.: Matthew Lyon
Asst. Gen. Sales Mgr.: J. M. Hearn

RICHARD D. BREW & CO., INC.
90 Airport Rd., Concord, N. H. (Tel. CApitol 5-6606)
Purch. Agent: Merton H. Tolman
Sales Mgr.: Roy E. Lonnberg **GE, TR, R&D**

BRIDGEPORT BRASS CO.
30 Grand St., Bridgeport 2, Conn. (Tel. EDison 4-1182)
V. P.-Sales: R. L. Allen
V. P.-Research & Dev.: R. A. Quadt
MF, WN, PS, GS, GE, CO, TS, TR, MM, R&D

BRIDGEPORT THERMOSTAT DIV., ROBERTSHAW-FULTON CONTROLS CO.
155 Hill St., Milford, Conn. (Tel. TRinity 8-1721)
Purch. Agent: H. V. Boshea
Sales Mgr.: Carl F. Ahlheim
WN, GS, GH, GE, CO, TS

BRIGGS ASSOCIATES, INC.
10 De Kalb St., Norristown, Pa. (Tel. BRoadway 9-0400)
Admin.-Purch.: Joseph F. Baldino
Sales Mgr.: Laurence R. Brown **GE, CO, TS, TR**

BRIGGS FILTRATION CO., THE
River Rd., Washington 16, D. C. (Tel. OLiver 4-7722)
Purch. Agent: D. H. Hardester
V. P.-Gen. Mgr.: J. H. Nash
Sales: John MacGuffin **PS, GS**

BRIGHT STAR INDUSTRIES
600 Getty Ave., Clifton, N. J. (Tel. GRegory 1-3200)
Purch. Agent: A. Levy
Sales Mgr.: Leon Kalkut **GS**

BRIGHTON CORP.
820 State Ave., Cincinnati 4, Ohio (Tel. GRandview 1-4110)
Purch. Agent: C. Johnson
Sales Mgr.: Richard G. Hext **PS**

BRILHART PLASTICS CORP.
Old Country Rd., Mineola, L. I., N. Y. (Tel. PIoneer 6-0425)
Purch. Agent: William Shea
Sales Mgr.: Thomas Ackerly

E. W. BRILMAYER LABS., INC.
86 Fulton St., New York 38, N. Y. (Tel. BEekman 3-7914)
Pres.: Eugene W. Brilmayer **TS**

BRISCOE MFG. CO.
1055 Gibbard Ave., Columbus 3, Ohio (Tel. AX 4-3376)
Pres.: E. H. Briscoe

BRISTOL BRASS CORP., THE
580 Broad St., Bristol, Conn. (Tel. LUdlow 2-3161)
Purch. Agent: Fred J. Greenleaf
Gen. Sales Mgr.: Donald Gay **MM**

BRISTOL CO., THE
Waterbury 20, Conn., (Tel. PLaza 6-4451)
Purch. Agent: F. Frohn
V. P.-Sales: H. E. Beane
Sales Mgr., Aircraft Dept.: W. C. Calvert
Purch. Agent: Fred W. Frohn **GS, CO**

BRISTOL MOTORS DIV.-VOCALINE CO. OF AMERICA, INC.
Coulter St., Old Saybrook, Conn. (Tel. EVergreen 8-3414)
Purch. Agent: Robert B. Cooney
Sales: Charles M. Murphy

BRITTON ELECTRONICS CORP.
213-20 99th Ave., Queens Village 29, N. Y. (Tel. HOllis 8-0940)
Purch. Agent: Doris Fitzsimmons
Pres.: Henry S. Ovrut **MM**

BROADCAST EQUIPMENT SPECIALTIES CORP.
Box 149, Beacon, N. Y. (Tel. 9-4587)
V. P.: David S. Gibson **TS**

BROOK MOLDING CORP.
30 Industrial Way, Norwood, Mass. (Tel. NOrwood 7-4715)
Purch. Agent: F. K. Whiting
Sales Mgr.: C. M. Cunningham **MF, WN, PS**

BROOK MOTOR CORP.
3302-04 W. Peterson Ave., Chicago 45, Ill. (Tel. INd. 3-6464)
V. P.-Sales: P. L. Loewe **MM**

BROOKS & PERKINS, INC.
1950 W. Fort St., Detroit 16, Mich. (Tel. TA 5-5900)
Purch. Agent (Mgr.): H. L. Westerdale
Purch. Dept.: John Drypen & Neil McLean
Gen. Sales Mgr.: H. P. Dunne **MF, GS, GH, MM**

BROOKS ROTAMETER CO.
407 W. Vine St., Hatfield, Pa. (Tel. ULysses 5-5174)
Purch. Agent: Frederick Roethemeier
Exec. V. P.-Sales: Seymour Blechman **TS**

BROWN ENGRG. CO., INC.
1320 Meridian St., Huntsville, Ala. (Tel. JEfferson 6-5536)
Purch. & Contracting Officer: George K. Williams
Supvr. Purch. Agent: William F. Thompson
Purch. Agent: Robert A. Steelman
Buyers: Billy G. Hunter & Wayne Hunter
Sales Mgr.: Oscar M. Hawkins
MF, WN, GS, GH, GE, CO, TS, R&D

BROWN INDUSTRIES DIV., BROWN TRAILERS, INC.
P. O. Box 54, Spokane, Wash.

BRUCE ENGRG. CO.
1633 W. 134th St., Gardena, Calif. (Tel. FAculty 1-2220)
Sales Mgr.: Burr McDowell
Supt.: M. K. Redlin **MF, WN, GH**

BRUNING CO., THE
601 S. 9th St., Lincoln, Neb. (Tel. 5-3511)
Pres.: E. F. Bruning **GS, GH**

BRUNSWICK INSTRUMENTS
Box 813, New Brunswick, N. J. (Tel. CHarter 7-5919)
Chief Engr.-Purch.: L. A. Rosenthal
Sales Mgr.: E. J. Horodner **GE, CO, TS**

BRUSH BERYLLIUM CO., THE
4301 Perkins Ave., Cleveland, O. (Tel. ENdicott 1-5400)
Dir.-Purch.: Richard Anuskiewicz
Purch. Agent: R. A. Cobb
V. P.-Sales: N. W. Bass **MF, PS**

BRUSH INSTRUMENTS, DIV.-CLEVITE CORP.
37th & Perkins Ave., Cleveland 14, Ohio (Tel. ENdicott 1-3315)
Purch. Mgr.: W. J. David
Gen. Sales Mgr.: Norman R. Klivans
GS, GE, CO, TS, TR, R&D

BRUSH NAIL EXPANSION BOLT CO.
Greenwich, Conn. (Tel. TOwnsend 9-3190)
Pres.: Irving G. Snyder **MF, PS**

BUCHANAN ELECTRICAL PRODUCTS CORP.
225 Rt. 22, Hillside, N. J. (Tel. WAverly 3-7474)
Plt. Supt. & Purch. Agent: Albert Mittleman
V. P.-Chg. Sales: Paul E. Vance

BUCKEYE IRON & BRASS WORKS
324 E. 3rd St., Dayton, O. (Tel. BAldwin 4-8355)
Purch. Agent: E. K. Griest
Asst. Purch. Agent: R. L. Reel
Sales Mgr.: Ray O. Comp **PS, GS, GH**

BUCKEYE TOOLS CORP.
P. O. Box 966, Dayton, Ohio (Tel. AXminster 8-5281)
V. P.-Sales: E. B. Meynard
Treas.: E. E. Reeves **MF, GS**

BUD RADIO, INC.
2118 E. 55th St., Cleveland 3, Ohio (Tel. HEnderson 1-7166)
V. P.-Purch.: E. J. Korey
Pres.: A. N. Haas **MM**

BUDD STANLEY CO. INC.
43-01 22nd St., Long Island City 1, N. Y. (Tel. STillwell 6-1706)
Purch. Agent: C. Alexander **WN, GE, TS, TR**

BUDELMAN ELECTRONICS CORP.
375 Fairfield Ave., Stamford, Conn. (Tel. FIreside 8-9231)
Purch. Agent: Edward Callum
Asst. Purch. Agent: M. Donnelly
Sales Mgr.: Robert L. Feistel **GE**

BUFFALO METAL CONTAINER CORP.
35 Roetzer St., Buffalo 11, N. Y. (Tel. BA 3944)
Dir.-Purch.: Robert J. Schieder
Sales Mgr.: A. E. Bausenbach **GS, GH**

BUFFALO WIRE WORKS CO., INC.
320 Terrace, Buffalo 2, N. Y. (Tel. CLeveland 4520)
Purch.: Charles F. Scheeler, Jr.
Sales Mgr.: Norman F. Grundner **MM**

BUHL OPTICAL CO.
1009 Beech Ave., Pittsburgh 33, Pa. (Tel. FAirfax 1-0076)
Purch.: M. Seder **MF, PS, GS, GE, CO, TS, TR**

BULLARD CO., THE
286 Canfield Ave., Bridgeport 9, Conn. (Tel. EDison 6-2511)
Mgr.-Purch. & Traffic: T. H. Wilber
Gen. Sales Mgr.: H. E. Neale **WN, PS, GS**

BULOVA WATCH CO., ELECTRONICS DIV.
40-06 62nd St., Woodside 77, N. Y. (Tel. NEwtown

CODING
Missile Frame MF
Warhead & Nose Cone WN
Propulsion System PS
Ground Support GS
Ground Handling GH
Guidance Equipment GE
Checkout Equipment CO
Test Equipment TS
Tracking & Telemetering TR
Research & Development R&D
Materials & Metals MM

9-5700)
Sales Mgr.: A. B. III, Jr. **GS, GE, TR**

BULOW ELECTRIC CO.
11000 Capital, Oak Park 37, Mich. (Tel. LI 7-1133)
Dir.-Purch.: C. J. Galea
Sales Mgr.: R. L. Bulow **GS, CO, TS, TR, R&D**

BURG TOOL MFG. CO., INC.
15001 S. Figueroa St., Gardena, Calif. (Tel. FA 1-3510)
Purch. Agent: M. Tavlin
V. P.-Sales: J. Burg

BURGESS BATTERY CO.
Foot of Exchange, Freeport, Ill. (Tel. ADams 2-2161)
Purch. Agent: Raymond Beldt
V. P.-Sales: C. E. Balz **GS, GE, CO, TS, TR**

BURGMASTER CORP.
Box 311, Gardena, Calif. (Tel. FAculty 1-3510)
Sales Mgr.: E. G. Merk
Purch. Agent: Marvin Taulin **MM**

BURKE & JAMES INC.
321 S. Wabash Ave., Chicago 4, Ill. (Tel. HArrison 7-8393) **R&D**

BURKLYN CO.
3429 Glendale Blvd., Los Angeles 39, Calif. (Tel. NOrmandie 2-3111)
Chief Clerk: A. Reed
Pres.: Roland Stevens
Asst. Mgr.: A. L. Kissler **MF, GS, GH, GE, TS, TR**

BURNDY CORP., OMATON DIV.
Richards Ave., Norwalk, Conn. (Tel. TEmple 8-4711)
Dir.-Purch.: L. Menzl
Dir.-Sales: S. D. Bergman
Buyers: W. Frey, J. Hartcorn
MF, PS, GS, GH, GE, CO, TS, TR

BURNELL & CO., INC.
10 Pelham Pkwy., Pelham Manor, N. Y. (Tel. PElham 8-5000)
Purch. Agent: V. Triwedi
Sales Mgr.: L. Schwartz **GS, GE, CO, TR**

BURNLEY BATTERY & MFG. CO., THE
103 Clay St., North East, Pa. (Tel. 5-3595)
Pres.: N. C. Swanson

BURR-BROWN RESEARCH CORP.
Box 6444, Tucson, Ariz. (Tel. AXtel 8-0772)
Dir.-Purch. & Sales: Thomas R. Brown, Jr. **R&D**

BURROUGHS CORP.
6071 2nd Ave., Detroit 32, Mich. (Tel. TRinity 5-2260)
Dir.-Purch.: Russ T. Stark
Defense Sales Mgr.: Jack C. Lindley
GS, GE, CO, TS, R&D

BURROUGHS CORP., ELECTRONIC TUBE DIV.
P. O. Box 1226, Plainfield, N. J. (Tel. PL 6-0876)
Purch. Agent: Vincent Perrucci
Sales Dir.: Arthur B. Shesser **GE, CO, TS**

BURTON-RODGERS, INC.
Blade & Helen Sts., Cincinnati 16, Ohio (Tel. UNiversity 1-2155)
Asst.-Pres.-Sales: O. A. Linse
Purch. Agent: Allen Loftspring
GH, GS, CO, TS, R&D

BURTON-ROGERS CO., SALES DIV.-HOYT ELECTRICAL INSTRUMENTS
42 Carleton St., Cambridge 42, Mass. (Tel. Eliot 4-1643)
Dir.-Sales: William Burton
Pres.: V. S. Church **TS**

BUSHINGS, INC.
4358 Coolidge Hwy., Royal Oak, Mich., (Tel. LIberty 9-3320)
V. P.-Purch.: K. W. Maust
V. P.-Sales: H. G. Moore **MM**

BUSSMANN MFG. DIV., McGRAW-EDISON CO.
University at Jefferson, St. Louis 7, Mo. (Tel. GArfield 1-1740)
Dir.-Purch.: Lee J. Bussmann
V. P.-Sales: J. C. Ingram **WN, GE, CO**

BUTLER MFG. CO.
7400 E. 13th St., Kansas City, Mo. (Tel. BEnton 1-7400)
Dir.-Purch.: L. P. Melcher
V. P.-Mktg.: H. A. Edlund **MF, WN, PS, GS**

BYRNE DOORS INC.
1603 E. Nine Mile Rd., Ferndale, Detroit 20, Mich. (Tel. JOrdan 4-5875)
V. P.-Purch.: A. M. Latimer
Purch. Agent: F. J. Middleton **GS, GH, R&D**

BYRON JACKSON PUMPS, INC.
2301 E. Vernon Ave., Los Angeles, Calif. (Tel. LUdlow 7-6171)
Purch. Agent: Elmer C. Prairie
Mgr.-Sales: N. D. Jesse **GS, GH, TS, R&D**

CBS-HYTRON, DIV.-COLUMBIA BROADCASTING SYSTEM, INC.
100 Endicott St., Danvers, Mass. (Tel. SPring 4-2360)
Dir.-Purch.: Edward R. Carroll
Purch. Agent: John F. Ryan
Asst. Purch. Agent: William E. Dennis
Buyers: R. A. Powers, J. W. Connery, F. W. Courage, W. W. Cook, E. F. Murphy
V. P.-Mktg.: Reed V. Bontecou

CDC CONTROL SERVICES, INC.
400 S. Warminster Rd., Hatboro, Pa. (Tel. OSborne 5-4100)
Head, Purch. Dept.: Alfred Krieg
V. P.-Sales: J. Lawrence Tecosky
MF, WN, PS, GS, GH, GE, CO, TS, TR

CELCO (CONSTANTINE ENGRG. LABORATORIES CO.)
70 Island Ave. Mahwah, N. J. (Tel. DAvis 7-1123)
Purch. Agent: Robert Meres
Buyer: Angeline Constantine
Sales Mgr.: Stephen Stephano **PS, GE**

CGS LABS., INC.
Rts. 7 & 35, Ridgefield, Conn. (Tel. ID 8-2317)
Supvr.-Purch.: George W. Korper, 391 Ludlow St., Stamford, Conn. (Tel. DAvis 5-1581)
V. P.-Mktg.: Melvin L. Jackson **GE, TR, R&D**

C & K COMPONENTS, INC.
101 Morse St., Newton 58, Mass. (Tel. WAtertown 3-0524)
Purch. Agent: Charles Crothers
Sales Mgr.: Robert H. Sturdy **GE, TR**

CABLE ELECTRIC PRODUCTS INC.
234 Doboll St., Providence, R. I. (Tel. STuart 1-5400)
Purch. Agent: W. Balutowski
Dir.-Sales: F. W. Schwartz **GS, GE**

SAMUEL CABOT INC.
141 Milk St., Boston, Mass. (Tel. HAncock 6-1010)
Plant Supt.: Augustus H. Hermann
Sales Mgr.: Samuel Cabot, Jr.

CADILLAC GAGE CO.
25760 Groesbeck Hwy., Warren, Mich. (Tel. PRescott 7-7100)
Purch. Agent: George Boothroyd
Sales Mgr., Aero Div.: Robert E. Kolp **GE, R&D**

CAIG LABS.
46 Stanwood Rd., New Hyde Park, L. I., N. Y. (Tel. PIoneer 2-0278)
Purch.: A. Pagelson
Sales: O. Lohkemper **GS, GH**

CALCON MFG. CO., INC.
100 Oakland Ave., Washington, Pa. (Tel. BAldwin 2-8190)
Wks. Mgr.-Purch.: A. W. Moore
Gen. Sales Mgr.: James C. Morosco **TR**

CALFIBE CO., INC.
Colton & Wabash Ave., Mentone, Calif., Mailing Add.: P. O. Box 832, Redlands, Calif. (Tel. PY 4-1166)
V. P.-Purch.: William M. Jordan
Purch.: Paul Bowler
Sales: Don F. Maier, 6214 W. Manchester Ave., Los Angeles 45, Calif. (Tel. OR 8-6890) **MM**

CALIDYNE CO., INC., THE
120 Cross St., Winchester, Mass. (Tel. WI 6-3810)
Purch. Agent: G. Worthen
Sales Mgr.: D. L. Wrisley **TS**

CALIFORNIA AIRCRAFT PRODUCTS
790 Greenfield Dr., El Cajon, Calif. (Tel. HIckory 2-3451)
Purch. Agent: Gavin W. Coles
Sales Mgr.: Joseph S. Alan **MF, PS**

CALIFORNIA SPRING CO., INC.
8401 E. Slauson Ave., Pico-Rivera, Calif. (Tel. RAymond 3-8581)
Purch. Agent: Robert Harris
V. P. & Sales Mgr.: Ray E. Coffield

CALIFORNIA TECHNICAL INDUSTRIES, DIV.-TEXTRON INC.
1421 Old County Rd., Belmont, Calif. (Tel. LYtell 3-8466)
Purch. Agent: John Woodside
Sales Mgr.: E. J. Bradley **GS, CO, TS**

CALINOY-DIV.-ILLINOIS TOOL WORKS
12917 Cerise, Hawthorne, Calif. (Tel. OR 8-3437)
Dir.-Engrg. & Mfg.: T. R. Boyd
Buyer: B. Henderson
Sales Mgr.: H. O. Hansen **MF, GS, GH, MM**

CALLAIR, INC.
Afton, Wyoming (Tel. 166)
Pres. & Gen. Mgr.: Barlow H. Call
Purch.: Jack E. Taggart
V. P.-Sales: C. J. Petersen

CALLERY CHEMICAL CO.
9600 Perry Hwy., Pittsburgh 37, Pa. (Tel. FOrest 4-1130)
Purch. & Traffic Mgr.: L. O'Hearn
Sr. Buyer: H. W. McDaniel
Mgr.-Mktg. Div.: R. A. Mulholland **PS, R&D**

CALTRON PRODUCTS CO.
3518 W. Pico Blvd., Los Angeles 19, Calif. (Tel. REpublic 4-2420)
Mgr.-Purch.: C. P. Swanson
Sales Mgr.: J. B. Sebrell **MM***

CALVERT ELECTRONICS INC.
536 Broadway, New York 12, N. Y. (Tel. CAnal 6-7400)
V. P.-Sales: Bernard Fox

CAMBRIDGE CO.-DIV.-CARRIER CORP.
2 Industrial Park, Lowell, Mass. (Tel. GLenview 4-7881)
Chief Purch. Agent: Vaughan Biggert
V. P.-Sales: Edward Elliott, Jr. **GS, GH**

CAMBRIDGE FILTER CORP.
728 E. Erie Blvd., Syracuse 1, N. Y. (Tel. GRanite 5-1608)
Purch. Agent: Richard C. Linehan
Sales Mgr.: Donald E. Wendel **GS, GE**

CAMBRIDGE INSTRUMENT CO., INC.
311 Grand Central Terminal, New York, N. Y.
Purch. Agent: R. A. Packard
Pres. & Sales Mgr.: R. H. Kruse

CAMBRIDGE THERMIONIC CORP.
445 Concord Ave., Cambridge 38, Mass. (Tel. TRowbridge 6-2800)
Purch. Agent: Frank C. Waterhouse
Asst. Purch. Agent: Jane Cheney
Sales Mgr.: Lowell Wilkes

CAMBRIDGE WIRE CLOTH CO., THE
Cambridge, Md. (Tel. CAmbridge 1033)
Purch. Agent: Fulton Moore **MF, PS, GS, GH**

CAMCAR SCREW & MFG. CO., DIV.-TEXTRON INDUSTRIES, INC.
600 Eighteenth Ave., Rockford, Ill. (Tel. WOodland 5-9451)
Purch. Agent: Iver Hawkinson
V. P.-Sales: James L. Holland

CAMDALE PRECISION, INC.
28300 Groesbeck Hwy., Roseville, Mich. (Tel. PRescott 1-0400)
Purch. Agent: H. L. Miller
V. P.-Sales: A. R. Schwesinger **GS**

CAMERA MART INC., THE
1845 Broadway, New York 23, N. Y. (Tel. PLaza 7-6977)
Dir.-Purch.: E. McCarthy
Dir.-Sales: S. Hyman **R&D**

CAMERAFLEX CORP.
1947 Broadway, New York 23, N. Y. (Tel. TRafalgar 3-4022)
V. P. & Gen. Mgr.: George H. Kauffeld, Jr.
Chief Engr.: Joseph Henkel
Prod. Mgr.: Frank LaSala **GS, TR, R&D**

***CAMERON IRON WORKS, INC.**
P. O. Box 1212, Houston, Texas (Tel. UNderwood 4-4411)
Purch. Agent: I. P. Dahl
Mgr.-Special Products Div.: J. W. Brougher
WN, PS, R&D
*(See Page 34 for Advertisement)

CAMLOC FASTENER CORP.
22 Spring Valley Rd., Paramus, N. J. (Tel. HUbbard 9-4900)
Gen. Supt.: T. A. Barkauskas
Purch. Agent: U. G. Grapengeter
Purch. Dept.: T. Skelly
Eastern Sales Mgr.: Wm. E. Bracey
Western Sales Mgr.: James G. English, 5410 Wilshire Blvd., Los Angeles, Calif. (Tel. WEbster 1-1361) **MF, GS, GH, GE**

CAMPCO, DIV.-CHICAGO MOLDED PRODUCTS CORP.
2738 N. Normandy Ave., Chicago 35, Ill. (Tel. TUxedo 9-5520)
Purch. Agent: Frank Klingenmeier
Asst. Purch. Agent: Cuyler E. Stanek
Sales Mgr.: James L. Bachner **MM**

CANADIAN RADIUM & URANIUM CORP.
630 Fifth Ave., New York 20, N. Y. (Tel. CIrcle 6-0460)
Purch.: Carl Krieger

Sales Mgr.: Henry B. Kearney
MF, WN, PS, GE, CO, TS, TR

C. F. CANNON CO.
Springwater, N. Y. (Tel. 531)
Dir.-Sales: A. W. Shriner

***CANNON ELECTRIC CO.**
3208 Humboldt St., Los Angeles 31, Calif. (Tel. CApitol 5-1251)
Purch. Mgr.: Roy Whitney
Purch. Agent: Earl Bixler
Gen. Sales Mgr.: Floyd M. Cate
Purch. Agent (Salem Div.): Lauvis McCarthy (Tel. Pioneer 5-0700)
Purch. Agent (Toronto Div.): Les Calvert (Tel. PLymouth 7-2845)

*(See Page 27 for Advertisement)

CANNON-MUSKEGON CORP.
2875 Lincoln St., Muskegon, Mich. (Tel. 5-1676)
Purch. Agent: George Gimakas
Sales Mgr.: F. Kenneth Iverson MM

CANOGA DIV., UNDERWOOD CORP.
15330 Oxnard St., Van Nuys, Calif. (Tel. STate 6-9010)
Dir.-Purch.: Louis E. Moore
Buyers: Warren W. Flee, J. Caminiti, H. Palmer
Dir.-Sales: G. H. Nibbe GS, GE, TR, R&D

CAPEWELL MFG. CO.
60 Governor St., Hartford 2, Conn. (Tel. JAckson 2-8191)
V. P.: Seery C. Gordon
Purch. Agent: Bernard Dunphy R&D

CAPITAL CITY MFG. CO.
857 King Ave., Columbus 12, O. (Tel. AX 9-2149)
Purch. Agent: R. F. Little
Sales Engr.: Carl Weger PS, GH, R&D

CAPITOL MACHINE CO., THE
36 Balmforth Ave., Danbury, Conn. (Tel. Pioneer 3-2758)
Purch. Agent & Sales Mgr.: Arthur E. Wilson
GS, TS, TR, R&D

CAPTIVE SEAL CORP.
30 Henry, Teterboro, N. J. (Tel. AT 8-0205)
Purch. Agent: R. Dodd PS, GS, R&D

CARBOLINE CO.
32 Hanley Ind. Ct., St. Louis 17, Mo. (Tel. MI 7-5795)
Purch. Agent: R. R. Rosenthal
Pres.: S. L. Lopata MM

CARBONE CORP., THE
400 Myrtle Ave., Boonton, N. J. (Tel. DE 4-0700)
Purch. Agent: E. Wizeman
Sales Mgr.: E. Dixon MM

CARBORUNDUM CO., LATROBE PLANT, REFRACTORIES DIV.
Latrobe, Pa. (Tel. KEystone 7-3331)
Purch. Agent: J. W. Bell, Jr.
Mgr.-Electronic Sales: D. S. Bowman MM, R&D

CARBORUNDUM CO., REFRACTORIES DIV.
Perth Amboy, N. J. (Tel. Hillcrest 2-3380)
Buyer: F. Richter
Mgr.-Refractories Sales Branch: A. A. Turner
Mgr.-Mktg.: J. M. Smith MM

CARBORUNDUM METALS CO., THE
P. O. Box 32, Akron, N. Y. (Tel. 9454)
Buyer: William F. Pritchard
Mgr., Sales Branch: H. A. Andersen

CARDINAL INSTRUMENTATION CORP.
4201 Redwood Ave., Los Angeles 66, Calif. (Tel. EXmont 1-5201)
Purch. Agent: D. R. Porter
Mktg. Mgr.: J. S. Frank GS, TS, TR

CARDOX DIV., CHEMETRON CORP.
840 N. Michigan Ave., Chicago 11, Ill. (Tel. WHitehall 4-7450)
Purch. Agent: M. Hemman
V. P.-Sales: F. C. Rodgers GS

CARLETON AVIATION CO.
516 Buffalo Rd., East Aurora, N. Y. (Tel. CYpress 4838)
Merlin K. Jones

CARLING ELECTRIC, INC.
504 New Park Ave., West Hartford 7, Conn. (Tel. ADams 2-4461)
Purch. Agent: William Fleming
Asst. Sales Mgr.: Francis Hanselman
V. P.-Sales: Wesley T. Sorenson MM

CARMAC AVIATION
8414 San Fernando Rd., Sun Valley, Calif. (Tel. STanley 7-5541)
Pres.: Carmine J. Vito MF, PS, GS, GH, MM

CARMODY CORP.
2360 Wehrle Dr., Buffalo 21, N. Y. (Tel. SPring 7700)
Purch. Agent: R. E. Pollock
Dir. Tng.: A. R. Molnar GS, R&D

CAROL ELECTRONICS CORP.
315 W. Stephen St., Martinsburg, W. Va. (Tel. AMherst 7-8911)
Gen. Mgr.: Eric Ruckbrod TS

CARPENTER MFG. CO., INC.
Highbridge Rd., P. O. Box 217, DeWitt 14, N. Y. (Tel. GIbson 6-0670)
Gen. Mgr.: Hubert J. Carpenter

CARPENTER STEEL CO., THE
153 W. Bern St., Reading, Pa. (Tel. Reading FRanklin 4-8211)
Purch. Agent: R. P. Freehafer
Asst. Purch. Agent: G. D. Nahn
V. P.-Sales: H. S. Potter MM

CARPENTER STEEL CO., THE, ALLOY TUBE DIV.
Springfield Rd., Union, N. J. (Tel. MUrdock 6-7230)
Purch. Agent: V. T. Nolan
Asst. Purch. Agent: R. A. Southard
Sales Mgr.: W. R. Staples MM

CARRIER CORP.
Carrier Pkwy., Syracuse, N. Y. (Tel. HOward 3-8411)
Dir.-Purch: Adolph Ruediger MF, PS

CARRUTHERS & FERNANDEZ, INC.
1501 Colorado Ave., Santa Monica, Calif. (Tel. EXbrook 4-6768)
Dir.-Purch.: Karel F. Zabloudil
V. P.-Sales: Frank C. Fernandez GS, GE, TS, R&D

J. C. CARTER CO., THE
671 W. 17th St., Costa Mesa, Calif. (Tel. LIberty 8-3421)
Purch. Agent: William C. Melo
V. P.-Mfg.: C. J. Allan
V. P.-Engrg. & Sales: M. D. Kilmer
Sales Mgr.: W. W. Saxton

CARTER CONTROLS, INC.
2800 Bernice Rd., Lansing, Ill. (Tel. GR 4-3305)
Purch. Agent: Thomas S. Britton
Sales Mgr.: J. Carter Miller GS, GH

CARTER MFG. CORP.
23 Washington St., Hudson, Mass. (Tel. HUdson 1309)
Pres.: W. Graustein

CARTRISEAL CORP.
3515 W. Touhy Ave., Lincolnwood, Ill. (Tel. BR 4-6140)
Buyer: Stanley Pyzik
Sales Mgr.: James Linskey MF, PS, GS

A. W. CASH VALVE MFG. CORP.
666 E. Wabash Ave., Decatur, Ill. (Tel. 2-8574)
Dir.-Purch.: Donald M. Perry
V. P.-Sales: G. William Madden

CASTING ENGINEERS DIV., CONSOLIDATED FOUNDRIES & MFG. CORP.
2323 N. Bosworth Ave., Chicago 14, Ill. (Tel. BUckingham 1-5940)
Purch. Agent: Arthur Matulis
Sales Mgr.: F. H. Meeder MM

CATALIN CORP. OF AMERICA
1 Park Ave., New York 16, N. Y. (Tel. MUrray Hill 3-2100)
Adv. Mgr.: R. A. Woodard MM

CATERPILLAR TRACTOR CO., ENGINE DIV.
Peoria, Ill. (Tel. 6-3311)
Purch. Agent: R. D. Norris
Asst. Sales Mgrs.: H. J. Hunkele & J. P. Morgan
Sales Mgr.: J. H. Gill GS, CO, TS

ALBERT H. CAYNE EQUIPMENT CORP.
71 Spring St., New York 12, N. Y. (Tel. CAnal 6-3317)
Purch. Agent: J. C. Lynn
Dir.-Sales: Albert H. Cayne GS, MM

CAYWOOD-SCHILLER, ASSOCIATES
203 N. Wabash Ave., Chicago 1, Ill. (Tel. ANdover 3-3340)
Purch.: T. E. Caywood
Purch. & Sales: D. H. Schiller R&D

CEDAR ENGRG. DIV.-CONTROL DATA CORP.
5806 W. 36th St., Minneapolis 16, Minn. (Tel. WEst 9-1681)
Purch. Agent: L. G. Bernier
Buyer: C. W. Engleman
Asst. Gen. Mgr.: Gordon J. Clark GE, TR, R&D

CENTRAL ELECTRONIC MFRS., DIV.-NUCLEAR CORP. OF AMERICA
2 Richwood Place, Denville, N. J. (Tel. OAkwood 7-4200)
Purch. Agent: Mike Buff
Gen. Sales Mgr.: Gene G. Perry GE, TS, TR

CENTRAL SCIENTIFIC CO.
1700 Irving Park Rd., Chicago 13, Ill. (Tel. WE 5-8600)
G. C. Godejohn TS

CENTRAL TRANSFORMER CO.
900 W. Jackson Blvd., Chicago 7, Ill. (Tel. TAylor 9-1936)
Purch. Agent: Miss Katharine Bednar
Sales Mgr.: Frank J. Gallagher PS, GS, GE, TS, TR

CENTRALAB, DIV.-GLOBE-UNION
900 E. Keefe Ave., Milwaukee 1, Wisc. (Tel. WO 2-9200)
Dir.-Purch.: Frank A. Messar
Gen. Sales Mgr.: W. E. Peek MM

CENTRAX LTD., AMERICAN SALES OFFICE
Park Sq. Bldg., 31 St. James Ave., Boston 16, Mass. (Tel. LIberty 2-2425)
V. P.-Sales: Charles J. Trees PS

CENTRONIX INC.
4000 N. W. 28th St., Miami 42, Fla. (Tel. NE 3-2505)
Purch. Dir.: I. Saxenhaus
Sales Mgr.: H. J. Roberts
MF, GS, GH, GE, CO, TS, TR, R&D

CENTURY ELECTRONICS & INSTRUMENTS, INC.
1333 N. Utica, Tulsa, Okla. (Tel. LUther 4-7111)
Purch. Agent: C. R. Campbell
V. P.-Sales: C. H. Brunell TS, TR

CENTURY FASTENERS CORP.
88 Sandford St., Brooklyn 5, N. Y. (Tel. ULster 2-6440)
Mgr., Aircraft Div.-Purch.: Pierre Tord
Sales Mgr.: George Stieglitz
MF, WN, PS, GS, GH, GE, TR, MM

CERAMASEAL, INC.
P. O. Box 25, New Lebanon Ctr., N. Y. (Tel. West Lebanon 3-5851)
Purch. Agent: Everett Franszon
Mgr.-Sales Engrg.: Gene D. Sawin
MF, PS, GE, MM, R&D

CHADWICK-HELMUTH CO.
472 E. Duarte Rd., Monrovia, Calif. (Tel. EL 8-4567)
Purch. Agent: Robert A. Stiver
Sales Mgr.: William F. Cox TS, R&D

CHAIN BELT CO.
4701 W. Greenfield Ave., Milwaukee, Wisc. (Tel. EVergreen 4-3000)
V. P.-Purch.: F. G. Syburg
Asst. Dir.-Purch.: F. A. Coenen
Purch. Agent: C. B. Johnson
Asst. Purch. Agent: M. O. Menzel
V. P.-Mktg.: G. H. Woodland MF, PS, GS, GH, GE

CHAIN BELT CO., SHAFER BEARING DIV.
Belmont Rd. at Curtiss St., Downers Grove, Ill. (Tel. WOodland 9-1770)
Div. Purch. Mgr.: J. J. Friedrich
Asst. Sales Mgr.: R. Schramm

CHALCO ENGRG. CORP.
15126 S. Broadway, Gardena, Calif. (Tel. FAculty 1-0121)
Dir.-Materiel: Irving Kierman
Purch. Agent: Ronald Ferdman
Dir.-Sales: William L. Rose
GS, GH, GE, CO, TR, R&D

CHALLENGE MACHINERY CO., THE
First St., Grand Haven, Mich. (Tel. 2800)
Purch. Agent: James Harvey
Plant Mgr.: Arthur Nelson
Sales Mgr.: Paul Babcock TS

CHAMBERSBURG ENGRG. CO.
Chambersburg, Pa. (Tel. COlony 4-7151)
Purch. Agent: W. H. Derbyshire
Sales Mgr.: S. C. Clarke

CHAMPION AIRQUIPMENT INC.
Box 8786, Pittsburgh 21, Pa. (Tel. EXport 360)
Purch. Agent: J. J. Konoski, Jr.
Mgr.-Sales: H. B. Middendorf
MF, WN, PS, GS, GH, CO, TS, TR

CODING

Missile Frame	MF
Warhead & Nose Cone	WN
Propulsion System	PS
Ground Support	GS
Ground Handling	GH
Guidance Equipment	GE
Checkout Equipment	CO
Test Equipment	TS
Tracking & Telemetering	TR
Research & Development	R&D
Materials & Metals	MM

CHAMPION CO., THE
400 Harrison St., Springfield, O. (Tel. FAirfax 3-7545)
Purch. Agent: W. E Cooksey
Asst. Purch. Agent: Samuel Patch
Mgr., Contracts Spec. Prod.: Thomas J. Martin
Mgr., Military Special Prod.: Norman L. Dickey **GH**

CHAMPION SPARK PLUG CO.
900 Upton Ave., Toledo 1, O. (Tel. JEfferson 6-3711)
Dir.-Purch.: Keith Wilson
Asst. Dir.-Purch.: C. W. Sweet
Aviation Sales Mgr.: B. R. Maus **PS**

CHANCE VOUGHT AIRCRAFT, INC.
P. O. Box 5907, Dallas, Tex. (Tel AN 2-3211)
Gen. Purch. Agent: B. A. Carlson
Dir.-Sales & Service: Forbes Mann **R&D**

CHANDLER EVANS CORP.
Charter Oak Blvd., West Hartford 1, Conn. (Tel. ADams 6-0651)
Dir.-Purch.: F. Donald Dildine
Purch. Agent: G. Kenneth Metcalfe
V. P.: Louis G. Burns **PS, GE, R&D**

CHANDLER PRODUCTS CORP.
1491 Chardon Rd., Cleveland 17, O. (Tel. IVanhoe 1-4400)
Purch. Agent: R. H. Akers
Sales Mgr.: Fred C. Chandler **MF, PS, GS, GH**

CHASE BRASS & COPPER CO., INC.
236 Grand St., Waterbury 20, Conn. (Tel. PLaza 6-9444)
Gen. Purch. Agent: C. D. Patterson
V. P.-Sales: G. B. Moseley
Gen. Sales Mgr.: W. E. Evans
MF, WN, PS, GE, TS, TR, MM, R&D

CHASSIS-TRAK, INC.
525 S. Webster Ave., Indianapolis, Ind. (Tel. FLeetwood 9-5407)
Gen. Mgr.: Martin R. Christman
Purch. Agent: J. Maurice Harrell

JOHN CHATILLON & SONS
85-93 Cliff St., New York 38, N. Y. (Tel. BEekman 3-2552)
Dir.-Purch.: V. D. McCoy
Exec. V. P.-Sales: George C. Reiley **TS**

CHEMALLOY ELECTRONICS CORP.
Gillespie Airport, Santee, Calif. (Tel. San Diego—HIckory 4-7661)
Gen. Mgr.: Samuel Freedman **MF, GE, CO, TS, TR**

CHEMICAL PRODUCTS CORP.
King Phillip Rd., East Providence, R. I. (Tel. GE 4-1770)
V. P.-Purch.: J. Ross Mainland
V. P.-Chem-o-sol Sales: Hugh B. Allison
V. P.-Lacquer Sales: Joseph S. Hawes **MM**

CHEMOLD CO.
2000 Colorado Ave., Santa Monica, Calif. (Tel. TExas 0-6046)
V. P. & Gen. Mgr.: L. R. Dailey
Sales Mgr.: Ralph Anelson **WN, GS, GH, MM**

CHEMPLAST, INC.
3 Central Ave., East Newark, N. J. (Tel. HUmboldt 2-2622)
Dir.-Purch.: Harry M. Truska
Dir.-Sales: Stephen S. Dorn **WN, MM**

CHEMPUMP CORP.
1300 E. Mermaid Lane, Philadelphia 18, Pa. (Tel. CHestnut Hill 7-6300)
Mgr.-Prod. Div.: F. Coonan
Purch. Agent: R. Ashenfelter
Mgr.-Mktg. Div.: W. W Drake **GS, R&D**

CHESAPEAKE INSTRUMENT CORP.
Shadyside, Md. (Tel. UNiversity 7-2151)
Purch. Agent: J. D. Hogan
Sales Mgr.: Neill A. Teets **TS, R&D**

CHESTER CABLE CORP.
2000 Hill St., Chester, N. Y. (Tel. HOmestead 9-2141)
Gen. Purch. Agent: J A. Henderson
MF, PS, GS, GH, CO, TS, TR

CHICAGO AERIAL INDUSTRIES, INC.
1980 Hawthorne Ave., Melrose Park, Ill. (Tel. FIllmore 5-1840)
Purch. Agent: Robert Rundle
Dir.-Customer Rel.: Arthur R. Fichter
GS, GE, CO, TS, R&D

CHICAGO-ALLIS MFG. CORP.
113-125 N. Green St., Chicago 7, Ill. (Tel. MOnroe 6-5050)
Dir.-Purch.: C. S. Immig
Buyer: W. J. Kelly
Gen. Sales Mgr.: D. H. Ball **MF, WN, PS, GS, MM**

CHICAGO BRIDGE & IRON CO.
332 S. Michigan Ave., Chicago, Ill. (Tel. HA 7-6708)
Purch. Agent: R. E. Hallenbeck
V. P.-Sales: S. C. Hamilton **PS, TS, MM, R&D**

CHICAGO DEVELOPMENT CORP.
5810 47th Ave., Riverdale, Md. (Tel. APpleton 7-2821)
V. P.-Purch.: William W. Gullett
Sales Mgr.: C. S. Goodloe **MM, R&D**

CHICAGO DIV., AMERICAN BOSCH ARMA CORP.
5857 W. 95th St., Oak Lawn, Ill. (Tel. PRescott 9-7100)
Purch. Agent: Gene Flood
Mgr.-Contracts & Sales: A. M. Bozich
GS, GE, CO, TS, TR

CHICAGO ELECTRONIC ENGRG. CO., INC.
3223 W. Armitage Ave., Chicago 47, Ill. (Tel. CApitol 7-3130)
Gen. Mgr.: B. F. Vivacque **PS, GS, GE, TS, TR**

CHICAGO GASKET CO.
1271 W. North Ave., Chicago 22, Ill. (Tel. HUmbolt 6-3060)
Mgr., Purch. Dept.: Paul H. Dittmer
Sales Mgr.: R. H. Martin **MM**

CHICAGO MINIATURE LAMP WORKS
1500 N. Ogden Ave., Chicago 10, Ill. (Tel. MOhawk 4-1741)
Secy.: T. Singer
V. P.-Sales: Ernest E Freeman, Jr. **GS, CO, TS, TR**

CHICAGO MOLDED PRODUCTS CORP.
1070 N. Kolmar Ave , Chicago 51, Ill. (Tel. DIckens 2-9000)
Purch. Agent: Frank E. Klingenmeier
Asst. Purch. Agent: Cuyler Stanek
V. P.-Chg. Molding Div.-Sales: James E. Johnston
MF

CHICAGO PNEUMATIC TOOL CO.
6 E. 44th St., New York 17, N. Y. (Tel. MUrray Hill 7-1700)
Purch. Agent: K. T. Dolson
Sales Mgr., Pneumatic Tools: R. T. Beers
Sales Mgr., Electric Tools: L. J. Walker
WN, PS, GS, GH, GE, TS, TR

CHICAGO RAWHIDE MFG. CO.
1301 N. Elston Ave., Chicago 22, Ill. (Tel. BRunswick 8-2100)
V. P. & Dir.-Purch.: Norman R. Hanson
Asst. Dir.-Purch.: B. J. Yunker
V. P. & Dir.-Sales: Phelps Wilder

CHICAGO RIVET & MACHINE CO.
950 S. 25th Ave., Bellwood, Ill. (Tel. LInden 4-5100)
Purch. Agent: W. A. Bautz
Asst. Purch. Agent: J. A. Campbell
Sales Mgr.: Wm. O. Shineflug

CHICAGO SCREW CO., THE, DIV.-STANDARD SCREW CO.
2501 Washington Blvd., Bellwood, Ill. (Tel. LInden 4-3500)
Dir.-Purch.: W. J. McCoy
Asst. Purch. Agents: P. W. McKenna & John James
V. P.-Standard Prod. Sales: E. L. Claussen
MF, WN, PS

CHICAGO STANDARD TRANSFORMER CORP.
3501 W. Addison St., Chicago 18, Ill. (Tel. INdependence 3-7400)
Purch.: E. Donnellan
Buyer: C. Dubas
Dir.-Sales: P. N. Cook **GE, CO, TS, TR**

CHIKSAN CO., SUB.-FOOD MACHINERY & CHEMICAL CORP.
330 N. Pomona Ave., Brea, Calif. (Tel. JAsper 9-2121)
Mgr.-Purch.: E. H. Nelson
Sales Mgr.: L. J. Smith **GS, GH**

CHISHOLM-MOORE HOIST DIV., COLUMBUS McKINNON CHAIN CORP.
Fremont Ave., Tonawanda, N. Y. (Tel. JAckson 2230)
Purch. Agent: W. J. Wolf
Sales Mgr.: E. J. Byrne
Sales Prom. Mgr.: R. N. Warnke **GH**

C. B. CHRISTIANSEN CO.
164 Pennington St., Newark 5, N. J. (Tel. MArket 3-4979)
Purch. Agent: L. Tarzinski
Sales: B. W. Deehan **MF, WN, PS, GS, GH, TS, TR**

CHRISTIE ELECTRIC CORP.
3410 W. 67th St., Los Angeles 43, Calif. (Tel. PLeasant 3-2607)
Purch. Agent: H. B. Doty
Sales Mgr.: E. E. Hughes **GS, CO**

CHRISTIE MACHINE WORKS
201 Harrison St., San Francisco 5, Calif. (Tel. EXbrook 2-2187)
V. P.-Purch. & Sales: Lloyd F. Christie
PS, GE, TR, R&D

CHRYSLER CORP., DEFENSE OPERATIONS DIV.
7000 E. Eleven Mile Rd., Center Line, Mich. (Tel. JEfferson 9-3000) Mailing Address: P. O. Box 757, Detroit 31, Mich.
Dir.-Proc.: A. H. Hilverkus
Purch. Supvr.: A. M. Thom
Dir.-Govt. Relations: G. W. Snider
MF, WN, PS, GS, GH, GE, CO, TS, TR, MM, R&D

CHRYSLER CORP., MISSILE DIV.
P. O. Box 2628, Detroit 31, Mich. (Tel. JEfferson 9-2000)
Purch. Agent: S. J. Roach
Purch. Admin.: J. M. Orr
Mgr.-Buying & Follow-up: J. P. Forbes
Mgr.-Purch. Analysis: C. R. McMacken
Mgr.-Sub-Contracts: H. L. Sinclair
MF, WN, PS, GS, GH, GE, CO, TS, TR, MM, R&D

CIBA PRODUCTS CORP.
P. O. Box 415, Fair Lawn, N. J. (Tel. SWarthmore 1-1122)
Sales Mgr.: E. N. Dorman **MM**

CIMASTRA DIV., THE CINCINNATI MILLING MACHINE CO.
Marburg Ave., Cincinnati 9, O. (Tel. RE 1-2121)
Purch. Agent: H. Decatur
Sales Mgr.: R. Bevis

CINCINNATI CLEANING & FINISHING MACHINERY
1100 Hageman St., Cincinnati 41, O. (Tel. PRinceton 1-5100)
Purch. Agent: C. Tyahur
Dir.-Sales: H. Nonneman

CINCINNATI MILLING MACHINE CO., THE
Marburg Ave., Cincinnati 9, Ohio (Tel. REdwood 1-2121)
Purch. Agent: Herman Decatur
Sales Mgr.: R. Bevis

CINCINNATI SHAPER CO., THE
Cincinnati, Ohio

CINCINNATI SUB ZERO PRODUCTS
3932 Reading Rd., Cincinnati 29, O. (Tel. PLaza 1-8810)
Purch. Agent: H. Kaupp
Proj. Engr.: R. E. Schroeder
Chief Engr.: T. J. Frederick **TS**

CINEMA ENGRG.
1100 Chestnut St., Burbank, Calif.
Gen. Mgr.: James L. Fouch

CINE-VIDEO PRODUCTIONS, INC.
Boston Post Rd., Milford, Conn. (Tel. TRinity 4-6590)
Pres.: G. W. Ray

CIRCON COMPONENT CORP.
Santa Barbara Municipal Airport, Goleta, Calif. (Tel. WOodland 7-1113)
Sales Mgr.: M. J. Ainsworth
MF, WN, PS, GS, GH, GE, TS, TR

CLAIREX CORP.
19 W. 26th St., New York 10, N. Y. (Tel. WAtkins 9-1668)
Dir.-Purch.: V. M. Schell
Sales: A. F. Deuth

CLARAGE FAN CO.
619 Porter St., Kalamazoo, Mich. (Tel. FIreside 9-1541)
Purch. Agent: R. F. Ware
Asst. Purch. Agent: D. F. Johnson
Dir.-Sales: C. R. McConner

C. P. CLARE & CO.
3101 Pratt Blvd., Chicago 45, Ill. (Tel. AMbassador 2-7700)
Purch. Agent: B. E. Brooks
V. P. in Chg. of Sales: D. R. Dooley
Asst. Purch. Agents: Thomas Grace & Robert Hickerson **MM**

DAVID CLARK CO., INC.
360 Park Ave., Worcester, Mass. (Tel. PLeasant 6-6216)
Purch. Agent: Ralph Miller, Jr.
Sales Mgr.: Charles W. Kaufman **TS**

CLARK CRYSTAL CO.
2 Farm Rd., Marlboro, Mass. (Tel. MArlboro 1411)
Mgr.: F. O. Nobles **GS, GE**

CLARK ELECTRONIC LABORATORIES
Box 165, Palm Springs, Calif. (Tel. FA 8-2210)
Sales Mgr.: D. B. Clark **GE, TR, R&D**

CLARK EQUIPMENT CO.
324 E. Dewey Ave., Buchanan, Mich. (Tel. OXbow 5-3811)
V. P.-Purch.: J. G. Mack
Mgr., Development Div.: Cyril B. Rogers **GH**

CLARK-AIKEN CO., THE
Water St., Lee, Mass. (Tel. 1261)
Prod. Engr.: J. P. Stoeke — **MF, PS, GS, GH**

CLARKSON LABS., INC., THE
920-30 N. Darien St., Philadelphia 23, Pa. (MArket 7-6764)
Treas.: Morris Coppersmith
Pres.: E. W. Heller — **R&D**

CLAROSTAT MFG. CO., INC.
Dover, N. H. (Tel. SHerwood 2-1120)
Purch. Dir.: E. O. Schramm
Gen. Sales Mgr.: E. W. Kingsbery

CLARY DYNAMICS
408 Junipero St., San Gabriel, Calif. (Tel. CUmberland 3-2724)
Purch. Agent: Don Werter
Gen. Sales Mgr.: Charles T. Cosser — **GE, TR, R&D**

CLAUSING DIV.-ATLAS PRESS CO.
1915 N. Pitcher St., Kalamazoo, Mich. (Tel. FIreside 5-7157)
Dir.-Purch.: S. L. Shaw
V. P.-Sales: G. C. Nancarrow — **MM**

CLEMCO AERO PRODUCTS, INC.
210 E. Manville St., Compton, Calif. (Tel. NEvada 6-8162)
Purch. Agent: E. J. Szkaradek
Plant Mgr.-Sales: R. E. Marsh — **GE**

CLEVELAND AUTOMATIC MACHINE CO., THE
4932 Beech St., Cincinnati 12, O. (Tel. REdwood 1-5300)
Purch. Agent: A. W. Niederhelman
V. P.-Sales Mgr.: John Prohaska

CLEVELAND CONTAINER CO., THE
6201 Barberton Ave., Cleveland, O. (Tel. OLympic 1-4500)
Purch. Agent: R. F. Boll
Sales Mgr.: Jay Sebesky — **MM**

CLEVELAND CRANE & ENGRG. CO., THE
Wickliffe, O. (Tel. WHitney 3-3700)
Purch. Agent: G. W. Urban — **GS**

CLEVELAND GRAPHITE BRONZE DIV.-CLEVITE CORP.
17000 St., Clair Ave., Cleveland 10, O. (Tel. IVanhoe 1-7221)
Dir.-Purch.: J. G. Mehring
Purch. Agent: J. C. Hall
Asst. Purch. Agent: P. W. Love
Purch. Analyst: J. Hopkins
V. P.-Sales: L. W. Christenson
Staff Asst.-Sales: R. C. Webster — **MM**

CLEVELAND INSTRUMENT CO.
6220 East Schaaf Rd., Cleveland 31, O. (Tel. LA 4-4821)
Purch. Agent: W. Young
Mgr.-Sales: F. W. Witzke — **GE, CO, TS**

CLEVELAND METAL SPECIALTIES CO., ELECTRONICS DIV.
1783 E. 21st St., Cleveland 14, O. (Tel. PRospect 1-4186)
V. P.-Purch.: Joe Japel — **WN, TR, R&D**

CLEVELAND PNEUMATIC INDUSTRIES, INC.
3781 E. 77th St., Cleveland 5, Ohio (Tel. DIamond 1-1700)
Materiel Mgr.: John Chapman
V. P.-Sales: Elmer Krueger — **PS, GS, GH, MM**

CLEVELAND WELDING DIV.-AMERICAN MACHINE & FOUNDRY CO.
W. 117th St. & Berea Rd., Cleveland 11, Ohio (Tel. WOodbine 1-2820)
Gen. Sales Mgr.: F. L. Nemeth
Purch. Agent: A. A. Mitsch — **GS, GH, MM**

CLEVITE TRANSISTOR PRODUCTS, DIV.-CLEVITE CORP.
241-257 Crescent St., Waltham 54, Mass. (Tel. TWinbrook 4-9330)
Dir.-Purch. & Prod. Control: W. T. Howland
Purch. Agent: G. Hird
Sr. Buyer: T. Kenney — **GE, TS, TR**

CLIFTON PRECISION PRODUCTS CO., INC.
Marple at Broadway, Clifton Heights, Pa. (Tel. MAdison 6-2101)
Purch. Agent: Tyson Parker
V. P. & Sales Mgr.: Thomas W Shoop — **GE, CO, TS**

CLIPPARD INSTRUMENT LAB., INC.
Cincinnati 39, O. (Tel. JAckson 1-4261)
V. P.-Purch.: James W. Dillon
Sales Engineers: Oscar S. Clippard & William C. Rau

CLOVER INDUSTRIES, INC.
578-588 Young St., Tonawanda, N. Y. (Tel. LUdlow 1331)
V. P.-Purch.: H. Paul Henderson
V. P.-Sales: L. N. Friol — **MM**

COAST MFG. & SUPPLY CO.
Box 71, Livermore, Calif. (Tel. HIlltop 7-1000)
Purch. Agent: A. J. Andersen
Sales Mgr.: James A. Merritt — **MM**

COAXIAL CONNECTOR CO. INC.
37 N. 2nd Ave., Mt. Vernon, N. Y. (Tel. MOunt Vernon 8-6416)
Purch. Agent: William R. Clayton
Dir.-Sales: Don Reade — **GE, TS, TR**

COBEHN, INC.
226 Passaic Ave., Caldwell, N. J. (Tel. CApital 6-6675)
Purch. Agent: William E. Bellars
V. P.-Sales: David F. Cook — **GS**

COBRA METAL HOSE DIV., DK MFG. CO.
5059 S. Kedzie Ave., Chicago 32, Ill. (Tel. REpublic 7-3311)
Purch. Agent: T. Kwasnik
Buyers: R. A. Michuda, W. K. Davis, A. Virgo
Sales Mgr.: Clyde D. Greeno — **MF, GS**

COFFING HOIST DIV., DUFF-NORTON CO.
800 Walter St., Danville, Ill. (Tel. 6-3800) — **GH**

COHAN EPNER CO. INC.
142 W. 14th St., New York 11, N. Y. (Tel. CHelsea 3-3411)
Purch. Agent: William Epner
Dir.-Sales: Gerald Epner — **MF, WN, PS, GS**

COIL CO. OF AMERICA
215 Washington St., Northvale, N. J. (Tel. CLoster 5-3434)
Purch.: H. Gay — **GS, GE, TS, TR**

COIL WINDING EQUIPMENT CO.
19 Maxwell Ave., Oyster Bay, N. Y. (Tel. OYster Bay 6-1285)
Purch. Agent: Mrs. Blanche A. George
Purch.: James H. George
Sales: Howard A. George — **GS, GH**

COILCRAFT INC.
Jandus Rd., Cary, Ill. (Tel. MErcury 9-2361)
Purch. Agent: William Desmond
V. P. & Dir.-Sales: Ralph Smith

COILS-ELECTRONICS
2939-49 N. 2nd St., Philadelphia 33, Pa. (Tel. REgent 9-6465)
Purch. Agent: Ben Malkin
Dir.-Sales: Leon Ozier — **R&D**

COLE ELECTRIC CO.
8439 Steller Dr., Culver City, Calif. (TExas 0-4701)
Sales Mgr.: H. P. Sparkes — **CO, TS, R&D**

COLE-HERSEE CO.
20 Old Colony Ave., South Boston 27, Mass. (Tel. ANdrew 8-2190)
Dir.-Purch.: G. B. Jacobs
Chief Engr.-Purch: T. Unsworth
Sales Engr.: Jerry Desjardins
Gen. Sales Mgr.: L. Mayer — **PS, GE, TR**

COLEMAN ENGRG. CO., INC.
3500 Torrance Blvd., Torrance, Calif. (Tel. FAculty 1-3900 & FRontier 6-8921)
Purch. Agent: E. J. Hannaman
Buyers: Robert Williams & Reg Bliss
V. P.-Cust. Relations: E. M. Armstrong — **GS, GH, CO, TR, R&D**

COLLECTRON CORP.
304 E. 45th St., New York, N. Y. (Tel. MU 9-7120)
Purch. Agent & Sales Mgr.: R. B. Coombs — **MM**

G. L. COLLINS CORP.
2820 E. Hullett St., Long Beach 5, Calif. (Tel. MEtcalf 0-3121)
V. P.-Purch.: G. D. Collins
V. P.-Sales: L. A. Bondy — **GE**

COLLINS ENGRG. CORP.
9050 Washington Blvd., Culver City, Calif. (Tel. TExas 0-4811)
Chief Purch. Agent: Ada Kadinger
Pres.: Joe Collins — **MM**

COLLINS MICROFLAT CO.
3249 W. El Segundo Blvd., Hawthorne, Calif. (Tel. ORegon 8-7694)
V. P.-Purch.: E. Mike Bruhwiler
Pres.: Lee Collins — **MM, R&D**

COLLINS RADIO CO.
855 35th St., N. E., Cedar Rapids, Iowa (Tel. EMpire 3-0281)
Dir.-Purch: John H. Wagner, 411 First Ave., S. E., Cedar Rapids, Iowa (Tel. EMpire 3-2661)
V. P.-Sales: J. G. Flynn, Jr., Dallas, Tex. (Tel. ADams 5-4511) — **GS, GE, CO, TR, R&D**

COLONIAL AIRCRAFT CORP.
Box 250 Sanford, Me. (Tel. SAnford 80)
Purch. Agent: Hervey Carpenter
Pres.: David B. Thurston — **MF, GS, GH, TS**

COLONIAL RUBBER CO.
706 Oakwood St., Ravenna, O. (Tel. AXminister 6-9611)
Purch. Agent: R. M. Richmond
Sales Mgr.: D. E. Mason — **MM**

COLORADO RESEARCH CORP.
Broomfield, Colo. (Tel. HArrison 9-3501)
Purch. Agent: A. R. Holden, Jr.
Dir.-Mktg.: David R. Miller — **R&D**

COLSON CORP., THE
440 Somerville Ave., Somerville 43, Mass.
Purch. Agent: C. Lockwood
Sales Mgr.: S. A. Leone — **GH**

COLUMBIA ELECTRIC MFG. CO.
4519 Hamilton Ave., Cleveland 14, O. (Tel. ENdicott 1-8060)
Purch. Agent: John Sygielski
Sales Mgr.: H. W. Sussman — **GS, TS, R&D**

COLUMBIA NUT & BOLT CO., INC.
945 Main St., Bridgeport 3, Conn. (Tel. EDison 3-4956)
Pres.: Howard P. Cook — **MM**

COLUMBIA PRODUCTS CO.
R.F.D. #3, Columbia, South Carolina (Tel. SUnset 7-8710)
Purch. Agent: Frank Cox
Sales Mgr.: S. W. Trewhella — **TR**

COLUMBIA RESEARCH & DEVELOPMENT CORP.
4608 Indianola Ave., Columbus 15, O. (Tel. AMherst 7-1277)
Purch. Agent: D. E. Lehman
Gen. Mgr.: H. O. Kempton — **GS, GH, R&D**

COLUMBIA RESEARCH LABS.
MacDade Blvd. & Bullens Lane, Woodlyn, Pa. (Tel. CHester 2-0381)
Buyer: Victor F. Alibert
Asst. Buyer: Thomas Carey, Jr.
Sales Mgr.: Vernon F. Alibert — **MF, PS, GS, GH, GE, CO, TS, TR**

COLUMBIA TECHNICAL CORP.
61-02 31st Ave., Woodside 77, N. Y. (Tel. AS 8-7401)
Purch. Agent & Treas.: V. Leibmann
Buyer: L. Tayla

COLUMBIAN CARBON CO., MAPICO IRON OXIDES UNIT
380 Madison Ave., New York 17, N. Y. (Tel. MUrray Hill 7-2300)
Sales Mgr.: C. O. Davidson — **MF, PS**

COLUMBIAN ROPE CO.
309 Genesee St., Auburn, N. Y. (Tel. 3-3221)
Purch. Agent: C. A. Fowler
V. P.-Sales: L. R. Hole — **MM**

COLUMBUS ELECTRONICS CORP.
1010 Saw Mill River Rd., Yonkers, N. Y. (Tel. YOnkers 8-1221)
Purch. Agent: David Parker
Sales Mgr.: Gustav Bard

COLVIN LABS., INC.
364 Glenwood Ave., East Orange, N. J. (Tel. ORange 7-1221)
Purch. Agent: V. Tobias
Gen. Mgr.: D. P. Vogel — **GE, TS, TR**

COM-AIR PRODUCTS, DIV.-A-S-R PRODUCTS CORP.
1201 Rio Vista Ave., Los Angeles 23, Calif. (Tel. ANgelus 3-2171)
Purch. Agent: Frank Georgianni
Dir.-Materiel: F. L. Loyd
Buyer: Jane Smith
Dir.-Field Engrg.: Victor Belfiore — **PS, GS, GE, CO, R&D**

COMAR ELECTRIC CO.
3349 Addison St., Chicago 18, Ill. (Tel. JUniper 8-2410)
Purch. Agent: Richard Baer
Asst. Purch. Agent: Chas. Kirchenbauer
Sales Mgr.: L. E. Noelck — **GS, GE, TR**

CODING

Missile Frame	MF
Warhead & Nose Cone	WN
Propulsion System	PS
Ground Support	GS
Ground Handling	GH
Guidance Equipment	GE
Checkout Equipment	CO
Test Equipment	TS
Tracking & Telemetering	TR
Research & Development	R&D
Materials & Metals	MM

COMCO PLASTICS INC.
97-24 Albert Rd., Ozone Park 17, N. Y. (Tel. MIchigan 1-0934)
Purch. Agent: E. Wemett
Sales Mgr.: J. C. Steele

COMMERCIAL FILTERS CORP.
2 Main St., Melrose 76, Mass. (Tel. DAvenport 4-7000)
Purch. Agent: Alan F. Riley
Sales Mgr.: J. R. Chisholm **PS, GS**

COMMERCIAL PLASTICS & SUPPLY CORP.
630 Broadway, New York, N. Y. (Tel. GR 7-5000)
V. P. & Dir.-Purch.: Morton R. French
Gen. Mgr.: Don I. Yarnall **MM**

COMMERCIAL SHEARING & STAMPING CO.
1775 Logan Ave., Youngstown 1, Ohio (Tel. RI 6-8011)
Purch. Agent: D. A. Boop
V. P.-Chg. Sales: H. B. Wollison **WN, MM**

COMMONWEALTH FELT CO.
76 Summer St., Boston 10, Mass. (Tel. LIberty 2-6590)
Treas.: I. Goldberg
Mgr.-Cut Parts Div.: N. M. Benson
Sales: J. S. Patterson **MM**

COMMUNICATIONS CO.
300 Greco Ave., Coral Gables, Fla. (Tel. HI 6-0846)
Purch. Agent: W. K. Whitmire
Asst. Gen. Mgr.-Sales: Frederick R. Macklin **GS, GH, GE, TR**

COMMUNICATIONS RESEARCH CO.
P. O. Box 778, Richmond 6, Va. (Tel. MIlton 4-3255)
Pres.: Paul K. Heim
Dir.-Research & Dev.: Dr. David P. Armstrong
Purch. Agent & Bus. Mgr.: Edward I. Davies **TR, R&D**

COMMUNITY ENGRG. CORP.
Box 824, State College, Pa. (Tel. ADams 7-7221)
Pres.-Purch.: James R. Palmer
Sales: Floyd B. Fischer

COMPONENTS CORP.
35 N. Arroyo Pkwy., Pasadena, Calif. (RYan 1-7448)
Pres.: Evert C. Hokanson **MF, WN, PS, GS, GH, GE, CO, TS, TR**

COMPUTER CONTROL CO., INC.
92 Broad St., Wellesley 57, Mass. (Tel. CEdar 5-6220)
Purch. Agent: Bradford P. Daniels
V. P.-Sales: William Wolfson
Sales Mgr.-Eastern Div.: James I. Leabman **GE, TR**

COMPUTER ENGRG. ASSOCIATES, INC.
350 N. Halstead St., Pasadena 8, Calif., (Tel. ELgin 5-7121)
Purch. Agent: John Brunk
Customer Service Mgr.: Richard T. Campbell

COMPUTER INSTRUMENTS CORP.
92 Madison Ave., Hempstead, L. I., N. Y. (Tel. IVanhoe 3-8200)
Dir.-Purch.: H. Adise
Purch. Agent: I. Clinton
Sales Mgr.: J. Herman **GH, TS, MM, R&D**

CONANT LABS.
Box 3997, Bethany Station, Lincoln 5, Nebr. (Tel. 4-0432)
Gen. Mgr.: G. Conant

CONAX CORP.
2300 Walden Ave., Buffalo 25, N. Y. (Tel. REgent 0600)
Purch. Agent: Edgar Kowalski
Sales Mgr.: John M. Considine **MF, WN, PS, GS, GE, CO**

CONCO ENGRG. WORKS
Mendota, Ill. (Tel. 2121)
Purch. Agent: P. J. Donahue
Asst. to Exec. V. P.-Sales: J. W. Burch **MF, GS**

CONMAR PRODUCTS CORP.
140 Thomas St., Newark 1, N. J. (Tel. BIgelow 8-2211)
Asst. Gen. Sales Mgr.: A. L. Moss

CONN-CRAFT CO.
301 Fairlawn Ave., Waterbury 5, Conn. (Tel. PLaza 4-1811)
Mgr.: Leo J. Bakinow

CONNECTICUT HARD RUBBER CO., THE
407 East St., New Haven 9, Conn. (Tel. SPruce 7-3631)
Purch. Agent: T. E. Grandshaw
Sales Mgr.: J. A. Moffitt, Jr. **MF, WN, PS, GS, GH, TR**

CONNECTOR CORP. OF AMERICA
12959 Sherman Way, N. Hollywood, Calif. (Tel. STanley 7-9653)
Pres.-Sales: Ralph R. Thomas **MF, WN, PS, GH, GE, TR**

CONOFLOW CORP.
2100 Arch St., Philadelphia 3, Pa. (Tel. LOcust 7-7560)
Purch. Agent: H. Bonekat
Sales Mgr.: J. Robert Simpson **TS**

CONRAD, INC.
Conrad Sq., Holland, Mich. (Tel. EXport 2-3161)
Purch. Agent: Merle Pointer, 141 Jefferson St., Holland, Mich.
V. P.-Sales: Charles Conrad, 141 Jefferson St., Holland, Mich. **TS, R&D**

CONSOLIDATED AIRBORNE SYSTEMS, INC.
321 Willis Ave., Mineola, N. Y. (Tel. Pioneer 6-7224)
V. P.-Gen. Mgr.: John I. Nestel
V. P.-Chief Engr.: Leo Stamler
Proj. Engr.: Hugo Daffara
Sales Mgr.: John A. Milbouer **GH, GE, CO, TS, TR**

CONSOLIDATED AMERICAN SERVICES, INC.
9999 W. Jefferson Blvd., Culver City, Calif. (Tel. TExas 0-4725)
Pres.: M. J. Ruland
Mgr.: R. A. Verno
Sales: R. Faille **PS, GS, MM**

CONSOLIDATED AVIONICS CORP.
800 Shames Dr., Westbury, L. I., N. Y. (Tel. EDgewood 4-8400)
Purch. Agent: Carl Cooper
Sales Mgr.: Peter J. Reuter **GS, CO, TR, R&D**

CONSOLIDATED CONTROLS CORP.
13 Durant Ave., Bethel, Conn. (Tel. Pioneer 3-6721)
Purch. Agent: C. S. Joyce
Sales Mgr.: C. M. Colt **PS, GS**

CONSOLIDATED DIESEL ELECTRIC CORP.
880 Canal St., Stamford, Conn. (Tel. DAvis 5-2261)
Purch. Agent: John Adams
Sales Mgr., Power Equipment Div.: M. J. Sullivan
Sales Mgr., Test Equipment Div.: Kenneth Gerhardt
Sales Mgr., Aircraft Equipment Div.: Robert Sellers **GS, GH, CO, TS, R&D**

CONSOLIDATED DIESEL ELECTRIC CORP., TEST EQUIP. DIV.
1 John St., Stamford, Conn. (Tel. DAvis 5-2261)
Purch. Agent: John Budnik
Sales Mgr.: Kenneth C. Gerhardt **GS, GH, CO, TS**

CONSOLIDATED DIESEL ELECTRIC CORP., WESTERN DIV.
15519 Lanark St., Van Nuys, Calif. (Tel. STate 2-4060)
Purch. Agent: T. C. McKinney **GS, GH, CO, TS**

CONSOLIDATED ELECTRODYNAMICS CORP.
300 N. Sierra Madre Villa, Pasadena, Calif. (Tel. RYan 1-8421)
Dir.-Purch.: Mario Gardner
V. P.-Mktg.: R. L. Smallman

CONSOLIDATED ELECTRODYNAMICS CORP., ROCHESTER DIV.
1775 Mt. Read Blvd., Rochester 3, N. Y. (Tel. GLenwood 3-7972)
Purch. Agent: W. Barton
Dir.-Mktg.: W. Dolke

CONSOLIDATED FILM INDUSTRIES
959 N. Seward St., Hollywood 38, Calif. (Tel. HOllywood 2-0881)
V. P. & Gen. Mgr.: Sidney P. Solow
Dir.-Sales: Jack M. Goetz

CONSOLIDATED INDUSTRIES, INC.
Mixville Rd., West Cheshire, Conn. (Tel. Cheshire-BRowning 2-5371)
Sales Engr.: E. A. Fentzlaff **MF, PS**

CONSOLIDATED PRODUCTIONS, INC.
3991 S. W. 12th Terrace, Fort Lauderdale, Fla. (Tel. JAckson 4-8361)
Purch. Agent: Gordon Jonas
V.P.-Sales: A. L. O'Connor **GS**

CONSOLIDATED WIRE & ASSOCIATED COMPANIES
1635 S. Clinton St., Chicago 16, Ill. (Tel. HA 1-4441)
Sales Mgr.: J. J. Mann **MF, PS, GS, GH, CO, TR**

CONTINENTAL AVIATION & ENGRG. CORP.
12700 Kercheval, Detroit, Mich. .(Tel. VAlley 2-1500)
Dir.-Purch.: Carl L. Schiller
Purch. Agent, Toledo Div.: John Watson (Tel. GR 5-4641)
Mgr.-Sales & Service: Kenneth C. Smith **PS, GS, R&D**

CONTINENTAL CAN CO., INC.
530 Fifth Ave., New York 17, N. Y. (Tel. MUrray Hill 2-1300)
J. B. Jack **MF, TR, MM**

CONTINENTAL CARBON, DIV.-WIRT CO.
5221-27 Greene St., Philadelphia 44, Pa. (Tel. GErmantown 8-9334)
Purch. Agent: Kalman Lifson
Sales Mgr.: Robert H. Hayes **GE, R&D**

CONTINENTAL CONNECTOR CORP.
34-63 56th St., Woodside 77, N. Y. (Tel. TW 9-4422)
Purch. Agent: A. Jacob **MF, GE**

CONTINENTAL DIAMOND FIBRE CORP.
Newark, Del. (Tel. ENdicott 8-8531)
Dir.-Purch.: W. H. Walker
Asst. Purch. Mgr.: F. A. Cain
Gen. Sales Mgr.: A. J. Briggs **MM, R&D**

CONTINENTAL DRILL CORP.
555 W. Adams St., Chicago 6, Ill. (Tel. DEarborn 2-2776)
V. P. & Dir.-Purch.: Lawrence A. Shick

CONTINENTAL ELECTRIC CO., INC.
325 Ferry St., Newark 5, N. J. (Tel. MItchell 2-4051)
Dir.-Purch.: Fred Bamberger
Dir.-Sales: A. W. Peterson **GS**

CONTINENTAL ELECTRONICS MFG. CO.
4212 S. Buckner Blvd., Dallas 27, Tex. (Tel. EVergreen 1-1137)
Dir.-Procurement Dept.: A. W. Schmidt, Jr.
Asst.-Procurement Dept.: Robert Keith
Dir.-Sales & Contract Negotiations: Thomas B. Moseley **GS**

CONTINENTAL MFG., INC.
1612 California St., Omaha 2, Nebr. (Tel. JAckson 2753)
Plt. Mgr.: Gean D. Poole
Pres.: Ray B. McMartin

CONTINENTAL METALS, INC.
7001 Santa Monica Blvd., Los Angeles 38, Calif. (Tel. HOllywood 9-8383)
Purch. Agent & Sales: I. H. Taylor **MM**

CONTINENTAL MOTORS CORP.
Market St., Muskegon Mich. (Tel. 2-7631)
Pres. & Gen. Mgr.: C. J. Reese

CONTINENTAL RUBBER WORKS
1963 Liberty St., Erie 6, Pa. (Tel. 2-5261)
Purch. Agent: Robert A. Bailey
Sales Mgr.: Charles C. Shenk **MF, WN, PS, GS**

CONTINENTAL SCREW CO.
459 Mt. Pleasant St., New Bedford, Mass. (Tel. WYman 3-2621)
Purch. Agent: Edward Pettengili
Gen. Sales Mgr.: Victor Ladetto **MF**

CONTINENTAL TECHNICAL SERVICE, INC.
29 W. Apple St., Dayton 2, O. (Tel. BA 2-8626)
Purch. Agent: F. Nation
Sales Coordinator: George Thomas **GS, GH, TS**

CONTINENTAL WIRE SALES CORP.
322 N. Cherry St., Ext. P. O. Box 366 Wallingford, Conn. (Tel. COlony 9-1421)
Purch. Agent: C. C. Christiansen
Sales Mgr.: E. T. Harrigan

CONTROL CIRCUITS INC.
5 Barton Hill, East Hampton, Conn. (Tel. ANdrew 7-9445)
Purch. Agent: H. L. Voelker

CONTROL DATA CORP.
501 Park Ave., Minneapolis 15, Minn. (Tel. FEderal 9-0947)
Dir. Purch.: James D. Harris
Purch. Agent: L. Bernier
Dir. Sales: James G. Miles

CONTROL ENGRG. CO., DIV.-JERVIS B. WEBB CO.
8900 Roselawn, Detroit 4, Mich. (Tel. WE 3-9311)
Purch. Agent: John K. Gage
Asst. Sales Mgr.: Thomas J. Lindsay
Gen. Mgr.: Marvin S. Blemly **GS, GH, CO, TS**

CONTROL PRODUCTS, INC.
306 Sussex St., Harrison, N. J. (Tel. HUmbolt 2-0213)
Purch. Agent: H. R. Brewster
Sales Mgr.: J. R. Nile

CONTROLS CO. OF AMERICA
9555 Soreng Ave., Schiller Park, Ill. (Tel. NAtional 5-9000)
Purch. Agents: L. Manfre & H. Keller
V. P.-Sales: D. Strathearn & A. Topp **MF, PS, GS, GH, GE, CO, TR**

CONVAIR-ASTRONAUTICS DIV.-GENERAL DYNAMICS CORP.
5001 Kearny Villa Rd., San Diego 12, Calif. (Tel. BR 7-8900)
Material Mgr.: C. F. Uhden
Gen. Purch. Agent: E. Fellows, Jr.

Purch. Agents: C. C. Farnsworth, C. T. Talbott & W. S. Tucker **MF, GS, CO, TS, TR, R&D**

CONVAIR-INSTRUMENTS DIV.,-GENERAL DYNAMICS CORP.
3595 Frontier St., San Diego 10, Calif. (Tel. AC 3-1614)
Dr. Egon E. Muehlner **CO, TS**

CONVAIR-POMONA DIV.-GENERAL DYNAMICS CORP.
1675 W. Fifth St., Pomona, Calif. (Tel. NAtional 9-5111)
Mgr.-Material: R. D. Webster
Gen. Purch. Agent: O. W. Connell
Purch. Agent-Standard Parts, Raw Materials, Facilities & Commercial: R. J. Hartmayer
Purch. Agent-Subcontracts, Special Components, Castings & Forgings: J. D. Currier
MF, GS, CO, TS, TR, R&D

C. LEE COOK CO., AIRTOMIC PRODUCTS DIV.
916 S. Eighth St., Louisville 3, Ky. (Tel. JUniper 7-6783)
Purch. Agent: S. J. Wohlhueter
Sales Engr.: W. E. Gossage **PS, MM**

FRANK R. COOK CO.
3850 Olive St., Denver 7, Colo. (Tel. FL 5-3531)
Purch.: M. L. Mowbray
Sales Mgr.: W. B. Winder

COOK ELECTRIC CO.
2700 N. Southport Ave., Chicago 14, Ill.

HERBERT COOPER CO., INC.
Box 1, Genesee, Pa. (Tel. 2761)
Secy. & Treas.: Joseph C. Herbert, Jr.

COOPER ALLOY CORP.
Hillside, N. J. (Tel. MU 8-4120)
Mgr.-Adv. & Sales Prom.: Stuart F. Cooper **MF, GS**

COOPER DEVELOPMENT CORP., SUB.-MARQUARDT AIRCRAFT CO.
2626 South Peck Rd. Monrovia, Calif. (Tel. HIllcrest 6-3138)
Purch. Agent: Eugene Binford
Mgr.-Contracts Planning: Malcolm C. Tucker
MF, PS, GS, CO, TS, TR, MM, R&D

COOPER INDUSTRIES, INC.
2149 E. Pratt Blvd., Elkgrove, Ill. (Tel. HEmpstead 9-2050)
Pres.: Harry Cooper
Sales Mgr.: Herbert Cooper **MM**

CO-OPERATIVE INDUSTRIES, INC.
100 Oakdale Rd., Chester, N. J. (Tel. 255)
Purch. Agent: E. F. Youngquist
Asst. Purch. Agent: Barnes Barker
V. P.-Sales: V. C. Bonardel
MF, WN, PS, GS, GH, GE, CO, TR

COOPER-BESSEMER CORP., THE
Mt. Vernon, O. (Tel. EX 3-0121)
Dir.-Purch.: H. C. Jones
Purch Agent: H. L. Winger
Dir.-Adv.: R. S. Warren
V. P.-Sales: S. E. Johnson **GS**

COPPERWELD STEEL CO., WIRE & CABLE DIV.
Glassport, Pa. (Tel. NOrth 4-7131)
Purch. Agent: M. M. Siegel
Sales Mgr.: F. E. Leib
MF, PS, GS, GH, TS, TR, MM

COPPUS ENGRG. CORP.
344 Park Ave., Worcester 10, Mass. (Tel. PLeasant 2-5638)
Purch. Agent: H. C. Hult
Sales Mgr.: E. Kundig **PS, GS, GH**

CORBIN PRODUCTS DIV.
Crescent Plaza Bldg. 306-B, Long Island City 1, N. Y. (Tel. ST 6-0700)
Exec. Secy.: D. R. Locke **GS, GH, MM**

CORDO CHEMICAL CORP.
34 Smith St., Norwalk, Conn. (Tel. VOlunteer 6-4438)
Purch. Agent: Robert F. Walsh
Exec. V. P. & Gen. Mgr.: George H. Sherrard
Sales Mgr.: F. W. Hall **GS, MM**

CORNELIUS CO., THE, AERO DIV.
550 39th Ave., N. E., Minneapolis 21, Minn. (Tel. SUnset 8-8613)
Purch. Agent: Fred A. Anderson
Mgr.-Sales: J. W. Mahanay **GS, GH, CO, R&D**

CORNELL AERONAUTICAL LAB.
Buffalo, N. Y.

CORNELL DEEP DRAWING CO., DIV.-LANES INDUSTRIES CORP.
612-620 Colorado Ave., Santa Monica, Calif. (Tel. EXbrook 3-1810)
V. P.-Purch. & Personnel: Peter F. Lanes **MM**

CORNELL-DUBILIER ELECTRIC CORP.
Hamilton Blvd., South Plainfield, N. J. (Tel. PLainfield 6-9000)
Dir.-Purch.: Paul H. Burbage
Sales Mgr., Mfg. Div.: Arthur Williams **TR**

CORNING GLASS WORKS
Corning, N. Y. (Tel. 2-5011)
Dir.-Purch.: T. S. Wood
Purch. Agent: Ralph Baker
Dir.-Mktg.: T. A. Kirkland
Sales Mgr.-Elec.: C. C. Harwood **WN, MM**

CORNISH WIRE CO. INC.
50 Church St., New York 7, N. Y. (Tel. BArclay 7-5140)
Purch. Agent: N. A. Brennan, 101 Water St., Williamstown, Mass. (Tel. GLenview 8-4111) **MM**

CORRUGATED PAPER PRODUCTS, INC.
2233 Utica Ave., Brooklyn, N. Y. (Tel. ESplanade 7-6112)
Pres.: J. Kapor

CORSON ELECTRIC MFG. CORP.
540 39th St., Union City, N. J. (Tel. UNion 6-4227)
Purch. Agent: Frank E. Dame
Sales: D. Corson

COSA CORP.
Chrysler Bldg., 405 Lexington Ave., New York 17, N. Y. (Tel. YUkon 6-9696)
Sales Mgr.: P. M. Aubry **GS, TS, TR**

COTO-COIL CO., INC.
65 Pavilion Ave., Providence 5, R. I. (Tel. WIlliams 1-3355)
Pres.: L. S. Bellem, Jr.
Treas. & Dir.-Sales: M. S. Musler

COUCH ORDNANCE, INC.
3 Arlington St., North Quincy, Mass. (Tel. BL 8-4147)
Purch. Agent: S. D. Bellis
Mgr.-Relay Div.-Sales: B. W. Gray **GE, TR**

COURTNEY & CO., INC.
1711 Walnut St., Philadelphia 3, Pa. (Tel. LOcust 7-1313)
Admin. Officer: Charles Wheeler **R&D**

COVEL MFG. CO.
P. O. Box 116, Graham Ave. at North Shore Dr., Benton Harbor, Mich. (Tel. WAlnut 6-6157)
Purch. Agent: J. E. Schadler
Sales Mgr.: Elmer A. Hopf

COX & CO., INC.
115 E. 23rd St., New York 10, N. Y. (Tel. ORegon 4-4727)
Purch. & Prod. Mgr.: Edward Kraft
Dir.-Sales: Herbert M. Brusman

COX INSTRUMENTS DIV., GEORGE L. NANKERVIS CO.
15300 Fullerton, Detroit 27, Mich. (Tel. VErmont 8-5780)
Purch. Agent: R. I. Pieti
Sales Mgr.: Robert Yung **CO, TS**

CRAIG SYSTEMS, INC.
360 Merrimack St., Lawrence, Mass. (Tel. MUrdock 8-6961)
Dir.-Purch.: Joseph L. Frost
Buyers: Miss Mildred Kazor & Barry Barker
Dir.-Sales Engrg.: Perry L. Nies **GS**

CRAMER CONTROLS CORP.
Centerbrook, Conn. (Tel. SOuth 7-8255)
Purch. Agent: R. W. Williams
V. P. & Dir.-Sales: W. H. Armstrong **GS**

CRANE CO.
836 S. Michigan Ave., Chicago 5, Ill. (Tel. WA 2-3123)
Mgr.-Chem. Mdsg.: J. E. Bradbury **GS, GH**

CRANE CARRIER CORP.
1150 N. Peoria, Tulsa, Okla. (Tel. LUther 3-5133)
V. P.-Purch.: W. T. Barber
Gen. Sales Mgr.: William Shames **GS, GH**

CRANE PACKING CO.
6400 Oakton St., Morton Grove, Ill. (Tel. ORchard 4-0100)
Purch.: Victor Gorgleth
Buyers: William Parlette & Harry Schnur
V. P.-Sales: V. E. Vorhees

CRATEX MFG. CO.
1600 Rollins Rd., Burlingame, Calif. (Tel. OXford 7-1600) **MM**

CRESCENT ENGRG. & RESEARCH CO.
5440 N. Peck Rd., El Monte, Calif. (Tel. GIlbert 4-0528)
Purch. Agent: J. Wackerman
Sales Mgr.: Scott B. Linn
PS, GS, GE, CO, TS, TR

CROLL-REYNOLDS CO. INC.
759 Central Ave., Westfield, N. J. (Tel. AD 2-4200)
Purch. Agent: C. D. Van Duzer **R&D**

CROMER MFG. & ENGRG., INC.
2138 E. 88th St., Los Angeles 2, Calif. (Tel. LUdlow 2-5383)
Purch. Agent: Mildred Hilgardner
Plt. Supt.: Darrel L. Sewart
V. P.-Chg. Sales: Harry S. Green **MF, PS, GS, GH**

CROMPTON & KNOWLES CORP.
93 Grand, Worcester, Mass. (Tel. PL 3-5431)
Purch. Agent: Joseph J. Benoit
Mgr.-Special Mfg. Dept.: R. J. McGivney **MF**

CRONAME INC.
6281 Howard, Chicago 48 (Niles), Ill. (Tel. SPring 4-2100)
Dir.-Purch.: Arthur J. Dahlgren
V. P.-Sales: Anthony F. Nosek **MM**

CROSBY LABORATORIES, INC.
299 Robbins Lane, Syosset, N. Y. (Tel. WElls 1-3191)
Purch. Agent: Samuel George
Liaison Engr.: Franklin J. White **R&D**

CROUSE-HINDS CO.
Wolf & 7th North Sts., Syracuse, N. Y. (Tel. GR 4-8411)
Purch. Agent: John Link
Asst. Purch. Agents: Paul Billy, Frank Eagan, Robert Gardner, Floyd Spaulding
Mgr.-Procurement: M. D. Low
V. P.-Sales: E. R. Monesmith **GS**

CROWN CONTROLS CO., INC.
40-44 S. Washington, New Bremen, O. (Tel. 2311)
Dir.-Purch.: Harry Gilbert
Contract Sales Mgr.: Ernest Jameson **GS, GH**

CROWN MFG. CORP.
33 Pequot Ave., New London, Conn. (GI 2-4325)
Office Mgr.: Harry Ali
Treas.: T. Kelly Parker **MM**

CRUCIBLE STEEL CO. OF AMERICA
P. O. Box 2518, Oliver Bldg., Pittsburgh 30, Pa. (Tel. ATlantic 1-3800)
Dir. Purch.: R. O. Bridge
V. P.-Sales: G. W. Stamm **MF, WN, MM**

CRYSTAL-X CORP.
112 W. Lenni Rd., Lenni Mills, Pa. (Tel. GLobe 9-1000)
Sales Mgr.: W. H. Seller **WN, MM**

CUBIC CORP.
5575 Kearny Villa Rd., San Diego 11, Calif. (Tel. BRowning 7-6780)
Dir.-Purch.: John C. Buchan
Buyers: George Dotson & Gussie Seeley
Sales Mgr.: Donald E. Root **TR**

CUMMINS ENGINE CO., INC.
1000 Fifth St., Columbus, Ind. (Tel. DRexel 2-7211)
Gen. Purch. Agent: R. W. McNealy
Asst. Gen. Purch. Agent: J. A. Beaman
V. P.-Sales: C. R. Boll **GS**

JAMES CUNNINGHAM SON & CO., INC.
33 Litchfield, Rochester 8, N. Y. (Tel. BAker 5-7240)
Purch. Agent: James Elliott
Sales: Peter F. Cunningham
Chief Engr.: A. W. Vincent **GS, CO, TS, TR**

CUNO ENGRG. CORP., THE
S. Vine St., Meriden, Conn. (Tel. BEverly 7-5541)
Purch. Agent: Fred Gagnier
V. P.-Sales: Walter Holder
MF, WN, PS, GS, GH, GE, CO, TR

CURTIS AUTOMOTIVE DEVICES, INC.
P. O. Box 297, Westfield, Ind. (Tel. 3-2415)
Purch.: Dale Stevens
V. P.-Sales: E. H. Hostettler **PS, GS, GH**

CURTIS UNIVERSAL JOINT CO., INC.
5A Birnie Ave., Springfield 7, Mass. (Tel. RE 7-0281)
Sales: T. B. Cavanaugh
Purch.: R. E. Curtis **MM**

CURTISS-WRIGHT CORP.
Valley Blvd., Wood-Ridge, N. J. (Tel. WEbster 3-0800)
Chm. & Pres.: Roy T. Hurley

CURTISS-WRIGHT CORP., ELECTRONICS DIV.
631 Central Ave., Carlstadt, N. J. (Tel. GEneva 8-4000)

CODING

Missile Frame	MF
Warhead & Nose Cone	WN
Propulsion System	PS
Ground Support	GS
Ground Handling	GH
Guidance Equipment	GE
Checkout Equipment	CO
Test Equipment	TS
Tracking & Telemetering	TR
Research & Development	R&D
Materials & Metals	MM

Purch. Mgr.: F. L. Nicholls
Buyer-Sheet Metal: John Kroll
Buyer-Subcontract: C. D. Post
Buyer-Resistors, Relays, Rheostats: C. Guerriere
Buyer-Tubes, Rectifiers, Knobs, Switches: R. Cucci
Buyer-Machined Parts, Gears, Raw Materials, Plating & Finishing: A. Protono
Dir.-Sales: Charles O. Cary
PS, GS, GE, CO, TS, TR

CURTISS-WRIGHT CORP., INDUSTRIAL & SCIENTIFIC PRODUCTS DIV.
P. O. Box 110, Princeton, N. J. (Tel. SWinburne 9-0500)
Supvr.-Purch.: V. L. Croal
Gen. Mgr.-Sales: H. S. Bamford
GS, GH, GE, CO, TS, TR

CURTISS-WRIGHT CORP., MARQUETTE DIV.
1145 Galewood Dr., Cleveland 10, O. (Tel. GLenville 1-4800) **GS, GH, MM**

CURTISS-WRIGHT CORP., PRINCETON DIV.
P. O. Box 110, Princeton, N. J. (Tel. SWinburne 9-0500)
Purch. Agent: Victor Croal
Mgr.-Radiographic Sales: James Commins
Mgr.-Ultrasonic Sales: William F. Smith **TS**

CURTISS-WRIGHT CORP., PROPELLER DIV.
Caldwell, N. J. (Tel. CApital 6-2540)
Mgr.-Purch.: W. B. Thompson
Purch. Agent: C. V. Cross
Sales Mgr.: H. S. Robbins **PS**

CURTISS-WRIGHT CORP., RESEARCH DIV.
Quehanna, Pa. (Tel. AMherst (Frenchville) 3-4711)
Purch. Agent: D. Bottenus
Asst. Purch. Agent: F. B. McBride
Buyers: J. Auman & D. Sicktich
Sales Mgr.: A. M. Weis **PS, GH, R&D**

CURTISS-WRIGHT CORP., SANTA BARBARA DIV.
P. O. Box 689, Santa Barbara, Calif. (Tel. WOodland 7-3411)
Dir.-Purch.: P. J. Canavan **MF, GS, TS, R&D**

CURTISS-WRIGHT CORP., SOUTH BEND DIV.
701 W. Chippewa Ave., South Bend, Ind. (Tel. ATlantic 9-7192)
Mgr.-Purch.: G. R. Quilhot
Chief Buyer: J. L. LaVine
Gen. Sales Mgr.: Robert Campello
MF, WN, GS, GH, MM, R&D

CURTISS-WRIGHT CORP., UTICA DIV.
50500 Mound Rd., Utica, Mich. (Tel. REpublic 2-2111)
Purch. Mgr.: A. T. Holland
Asst. Sales Dir.: G. S. Moule

CURTISS-WRIGHT CORP., WRIGHT AERONAUTICAL DIV.
Wood-Ridge, N. J. (Tel. PRescott 7-2900)
Dir.-Purch.: James R. Donahue
Dir.-Sales: J. V. Miccio **PS, R&D**

CURTISS-WRIGHT ELECTRONICS DIV., IMI BRANCH
P. O. Box 8324, 4401 Lunada S. E., Albuquerque, N. M. (Tel. AMherst 8-8791)
Purch. Agent: Hoyt S. Westcott
Branch Mgr.: John F. Quirk
Branch Sales Mgr.: Victor V. Myers
GS, CO, TS, TR, R&D

CUSHMAN PRECISION INDUSTRIES
262 Alexander St., Princeton, N. J. (Tel. WAlnut 1-7008)
Dir.-Purch.: Irving Gemmell
Pres.: Robert H. Cushman **TS, TR, R&D**

CUSTOM COMPONENTS, INC.
P. O. Box 248, Caldwell, N. J. (Tel. CAldwell 6-3403)
Sales: Harold I. Danziger **TR**

CUTLER METAL PRODUCTS CO.
1025 Line St., Camden, N. J. (Tel. WOodlawn 3-1060)
V. P.-Purch.: Irving Shipkin
Pres.: Harry H. Cutler

CUTLER-HAMMER INC.
212 N. 12th St., Milwaukee 1, Wisc. (Tel. BRoadway 1-7800)
Dir.-Purch.: B. M. Harter
Purch. Analyst: C. N. Harwood
Buyers: J. A. Twet, J. R. Leedom, W. L. Gaulke
V. P.-Mktg.: J. M. Cook **WN, GS, GH, CO, TS**

CYCLE TRANSFORMER CORP.
356 Glenwood Ave., East Orange, N. J. (Tel. ORange 4-0731)
Purch. Agent: J. U. Dion
Chief Engr.: H. Edgar Snow
Sales Engr.: Paul M. Brubaker
GS, GE, CO, TS, TR

DBM RESEARCH CORP.
Stoddard Bldg., Atlantic Ave., Cocoa Beach, Fla. (Tel. SUnset 3-2438)
Mgr.-Purch. Dept.: Cliff E. Mattox
TS, TR, MM, R&D

D K MFG. CO.
5059 S. Kedzie, Chicago 32, Ill. (Tel. RE 7-3311)
Purch. Agent: Ted Kwasnik
Sales Mgr.: John Ferdinandsen **MF, PS, GS, GH**

D & R, LTD.
402 E. Gutierrez St., P. O. Box 1500, Santa Barbara, Calif. (Tel. WOodland 5-4511)
Purch. Agent: C. E. Schaefer
V. P.-Purch.: E. D. Sperry
Sales Mgr.: J. A. Moseley
PS, GS, GE, CO, TS, TR

D & R PILOT PLANTS INC.
Water St., Hazardville, Conn. (Tel. RIverview 9-8303)
Dir.-Sales: M. Mead
Group Leaders: H. S. Schnitzer & S. B. King **MM**

D. S. D. MFG. CO., THE
2964 Whitney Ave., Hamden, Conn. (Tel. ATwater 8-1678)
Wks. Mgr. & Secy.: William J. Devin **MF, PS, GS**

DAGE ELECTRIC CO., INC.
67 N. 2nd St., Beach Grove, Ind. (Tel. STate 6-0458)
Purch. Agent: Roger Mays
Gen. Mgr.: Calvin J. Zehr **GE, TR**

DAGE TELEVISION DIV., THOMPSON RAMO WOOLDRIDGE, INC.
West 10th St., Michigan City, Ind. (Tel. TR 4-3251)
Purch. Agent: W. E. Dillon **GS, TR, R&D**

DAHLSTROM METALLIC DOOR CO.
443 Buffalo St., Jamestown, N. Y. (Tel. 7991)
Dir.-Purch.: Henry N. Ericson
V. P.-Sales: Carl T. Bergstrom

DAKOTA ENGRG., INC.
4315-4317 Sepulveda Blvd., Culver City, Calif. (Tel. TExas 0-7983)
Sales Mgr.: Betty Boundy **MF, PS, GS, GH, GE, TR**

DALE PRODUCTS, INC.
P. O. Box 136, Columbus, Nebr. (Tel. LOcust 4-3131)
Purch. Agent: Wallace Brunken
V. P.-Sales: Dan Geeding
MF, WN, PS, GS, GH, GE, CO, TS, TR

DALMO VICTOR CO., DIV.-TEXTRON INC.
1515 Industrial Way, Belmont, Calif. (Tel. LYtell 1-1414)
Purch. Agent: Ralph Brown
Supt.-Outside Procurement: Bill Wurfer
Buyer-Electronic Components: Mike Lichtenstein
Buyer-Electrical Supp., Bearings: Hal Amberg
Buyer-Maintenance, Machine Tools, Equip.: Al Viano
Buyer-Stationary, AN Hardware & Fittings, Raw Materials: Ken Irwin
Dir.-Sales: George C. Stewart
MF, WN, PS, GS, GE, CO, TS, TR

DALMORE CORP.
47 Prospect St., Woburn, Mass. (Tel. WEIls 3-5390)
Purch. Agent: R. A. Joyce
MF, WN, PS, GS, GE, TR

DALMOTOR DIV., YUBA CONSOLIDATED INDUSTRIES, INC.
1375 Clay St., Santa Clara, Calif. (Tel. CHerry 3-9414)
Purch. Agent: H. Walraven
Sales Mgr.: J. Booth
GS, GH, GE, CO, TS, TR, R&D

DALWELD CO. INC.
15 Bertel Ave., Mt. Vernon, N. Y. (Tel. MOunt Vernon 4-8698)
Pres.: Jerry Robinson **MM**

DAMASCUS TUBE CO.
P. O. Box 71, Greenville, Pa. (Tel. Transfer, Pa., MItchell 6-1500)
Purch. Agent: J. M. Thompson
Sales Mgr.: Walter J. Erdell **MM**

DAMPP-CHASER, INC.
1440 Ridgewood Blvd., Hendersonville, N. C. (Tel. OXford 3-8271)
Purch.: B. Dalton
Sales Mgr.: O. Jack Buckley **MM**

DANBURY CENTERLESS GRINDING CO.
Rt. 7, Sugar Hollow Rd., Danbury, Conn. (Tel. PI 3-5525)
Gen. Mgr.: George P. Valluzzo
Office Mgr.: Anthony F. Asmar **MM**

C. R. DANIELS, INC.
Daniels, Md. (Tel. ELlicott City 1200)
Purch. Agent: D. H. Kelley
Buyers: W. L. Young, F. J. Trumpbour & J. Russell
V. P.-Sales: W. E. Carson
GS, GH, TR

DANLY MACHINE SPECIALTIES, INC.
2100 S. Laramie Ave., Chicago 50, Ill. (Tel. BIshop 2-1800)
Purch. Agent: Paul R. Fields
Asst. Purch. Agent: Donald McGibbon
Buyer: William Gardner
V. P.-Press Sales: D. R. Danly
V. P.-Sales, Die Makers Supp.: R. E. Danly
MF, WN, PS, GS, GH, TS

DANTE ELECTRIC MFG. CO.
Marne Park, Bantam, Conn. (Tel. Litchfield, JOrdan 7-5307)
Gen. Mgr.: Joseph J. Dante

DARCOID CO, INC., THE
145 6th Ave., New York 13, N. Y. (Tel. ALgonquin 5-1393)
Gen. Mgr.: Peter J. Digilio **MF, PS**

DARLING VALVE & MFG. CO.
Foot of Walnut, Williamsport, Pa. (Tel. 3-6121)
Dir.-Sales: D. F. Sable
Sales Admin. Mgr.: H. B. Foster

DARNELL CORP. LTD.
37-28 61st St., Woodside 77, N. Y. (Tel. HAvemeyer 4-3717)
Sales Mgr.: A. L. Foster
Div. Sales Mgr.: R. J. Geberth **GH**

DATA INSTRUMENTS DIV.-TELECOMPUTING CORP.
12838 Saticoy St., North Hollywood, Calif. (Tel. STanley 7-8181)
Purch. Agent: Jim Newton
Dir.-Sales: Robert E. Poole **CO, TS, TR, R&D**

DATA-CONTROL SYSTEMS INC.
39 Rose St., Danbury, Conn. (Tel. Pioneer 3-0241)
V. P.-Operations: W. E. Estelle
Sr. Buyer: Joseph Rawlins
Acting Sales Mgr.: Robert J. Jeffries
GS, GH, GE, CO, TS, TR, R&D

DATASCAN INC.
48 Notch Rd., Little Falls, N. J. (Tel. CL 6-0077)
Dir.-Purch.: Mrs. W. Morris **GS, CO, TS**

DATEX CORP.
1307 S. Myrtle Ave., Monrovia, Calif. (Tel. ELliot 9-5381)
Chief Buyer: Richard V. Ireland
Buyer: J. P. Ainsworth
V. P. & Sales Mgr.: John W. Bodnar
GS, GE, CO, TS, TR, R&D

DATRAN ELECTRONICS, DIV.-MID-CONTINENT MFG., INC.
1836 Rosecrans Ave., Manhattan Beach, Calif. (Tel. OSborne 5-7131)
Purch. Agent: Robert D. Errington
Gen. Mgr.: Allen J. Edwards
Chief Engr.: Richard E. George **GS, CO, TS, TR**

DAVEN CO., THE
Rt. 10, Livingston, N. J. (Tel. WYman 2-4300)
Dir.-Purch.: G. H. Newman
Buyers: A. M. Watkins, M. H. Scherr & I. Valentine
Sales Mgr.: E. L. Grayson
GS, GE, CO, TS, TR, R&D

DAVENPORT MFG. CO.
1713 N. Ashland Ave., Chicago 22, Ill. (Tel. DIckens 2-5620)
Treas.: A. W. Davenport **TS, R&D**

DAVIDSON MFG. CO. , INC.
2223 Ramona Blvd., West Covina, Calif. (Tel. EDgewood 7-7281)
Purch. Agent.: O. A. Kidwell
Sales Mgr.: L. Van Valkenburg **GS, GE, TS, R&D**

DAVIS INSTRUMENTS
47 Halleck St., Newark, N. J. (Tel. HUmboldt 2-3660)
Purch. Agent: C. Freeman

DAVISON CHEMICAL CO.
Erwin, Tenn. (Tel. ERwin 2-1721)
Purch. Agent: A. Price
Dir.-Sales: T. C. Runion **MM**

J. H. DAY CO., THE, DIV.-THE CLEVELAND AUTOMATIC MACHINE CO.
4932 Beech St., Cincinnati 12, Ohio (Tel. RE 1-5300)
Purch. Agent: A. W. Niederhelman
Sales Mgr.: Jack Diltz
V. P.-Sales: Martin Miller

DAY-RAY PRODUCTS, INC.
1133 Mission St., South Pasadena, Calif. (Tel. MUrray 2-1189)
Secy.-Treas.: Mrs. W. D. Adams

DAYSTROM INSTRUMENT, DIV.-DAYSTROM, INC.
Archbald, Pa. (Tel. JErmyn 1100)

Dir.-Purch.: A. I. Manuel
V. P.-Sales & Contracts: Howard J. Warnken
MF, WN, PS, GS, GE, TR

DAYSTROM PACIFIC DIV.-DAYSTROM, INC.
9320 Lincoln Blvd., Los Angeles 45, Calif. (Tel. ORchard 4-7100)
Purch. Agent: Bernard A. Thompson
Sr. Buyers: Richard E. Sexton & Rex Ayares **GE**
Dir.-Sales: J. T. Cairns

DAYSTROM TRANSICOIL DIV., DAYSTROM, INC.
Worcester, Montgomery County, Pa. (Tel. JUno 4-2421)
Dir.-Sales: G. Barnes Stevenson

DAYTON AIRCRAFT PRODUCTS, INC.
P. O. Box 8007, 812 N. W. First St., Ft. Lauderdale, Fla. (Tel. JAckson 3-5451)
Dir.-Purch.: H. A. Cline
Dir.-Engrg.: A. J. Benkoczy
Dir.-Sales: J. H. Sampson **GE, TS, TR, R&D**

DAYTON AVIATION RADIO & EQUIPMENT CORP.
Box 258, Troy, Ohio (Tel. FEderal 2-5513)
Purch. Agent: Earl Balger
Military Mgr.: Ralph O'Connor
Sales Mgr.: E. Polansicy **GE, TS, R&D**

DAYTON RUBBER CO., THE
2345 Riverview Ave., Dayton 1, Ohio (Tel. CRestview 8-2666)
Dir.-Purch.: L. J. Keyes
Buyers: R. P. Heist, R. A. Greenwald, J. B. Cochenour & B. Rhines **WN, GS, MM, R&D**

DAYTRONIC CORP.
216 S. Main St., Dayton 2, O. (Tel. BAldwin 3-7618)
Prod. Mgr.: W. R. Winger
Chief Engr.-Purch.: R. M. Kinkead
Dir.-Sales: M. M. Moorhead, Jr. **PS, CO, TS**

DEAN & BENSON RESEARCH, INC.
16 Richmond St., Clifton, N. J. (Tel. GRegory 1-1600)
Purch. Agent: Robert Bridge
Sales Mgr.: Richard Portofee
Plant Mgr.: Joseph Micka **GS, GH, GE, TS, R&D**

DEAN PRODUCTS, INC.
616 Franklin Ave., Brooklyn 38, N. Y. (Tel. ST 9-5400)
V. P.-Sales: Rubin Raskin

DEARBORN ELECTRONIC LABS.
1421 N. Wells St., Chicago, Ill. (Tel. WH 3-2412)
Purch. Agent: Gus Stamos
Gen. Mgr.: Ray Simpson
Sales Mgr.: Bill Cox **GE, TR, R&D**

DeBELL & RICHARDSON INC.
Water St., Hazardville, Conn. (Tel. RIverview 9-8301)
Pres.: John M. DeBell
Sr. Group Leader: Arthur J. Warner **TS, MM, R&D**

DECISION INC.
4602 Red Bank Rd., Cincinnati 27, O. (Tel. BRamble 1-3200)
Pres.: Oliver P. Bardes **R&D**

DECKER CORP., THE
45 Monument Rd., Bala-Cynwyd, Pa. (Tel. GArfield 5-2300)
Dir.-Purch.: A. Richard Newhouse, Jr.
Dir.-Sales: Neil B. Harding
V. P.-Sales: Thomas W. Spirito
WN, PS, GE, TS, TR, R&D

DEE ELECTRIC CO.
1101 N. Paulina St., Chicago 22, Ill. (Tel. BElmont 5-5151)
Pres.: W. DeVerter
Purch. Agent: G. Parrish

DEJUR-AMSCO CORP., ELECTRONIC SALES DIV.
45-01 Northern Blvd., Long Island City 1, N. Y. (Tel. RAvenswood 1-4009)
Purch. Dir.: Peter Heaney
Indust. Sales Mgr.: N. J. Geldman **GS, GE, CO, TR**

DEL ELECTRONICS CORP.
521 Homestead Ave., Mt. Vernon, N. Y. (Tel. OWens 9-3232)
V. P.-Engrg.: H. J. DiGiovanni
V. P.-Research: R. Kaufman **MM, R&D**

DELAVAN MFG. CO.
811 4th St., West Des Moines, Iowa (Tel. CR 4-1561)
Purch. Agent: W. E. Stroeber
Buyers: Robert Heles & Charles O'Brien
Gen. Sales Mgr.: J. D. Hopkins **PS**

DELCO RADIO DIV.-GENERAL MOTORS CORP.
700 E. Firmin, Kokomo, Ind. (Tel. GLadstone 2-8211)
Purch. Agent: R. Hill, Jr.
Dir.-Sales & Engrg.: H. M. Stelzl
Gen. Sales Mgr.: D. A. Sandberg **GS, GE**

DELCO-REMY DIV., GENERAL MOTORS CORP.
2401 Columbus Ave., Anderson, Ind. (Tel. 5581)
Dir.-Purch.: F. E. Baze
Dir.-Sales & Engrg.: J. H. Bolles
GS, GE, CO, R&D

DELL OPTICS CO., LTD.
327 55th St., West New York, N. J. (Tel. UN 7-1599)
Dir.-Purch. & Sales: Peter F. Tralongo **MM, R&D**

DEL'S TUMBLING SERVICE
232 N. Rosemary St., Dearborn 6, Mich. (Tel. LOgan 2-5537)
Pres.: D. W. Dyer

DELSEN CORP.
719 W. Broadway, Glendale 4, Calif. (Tel. CHapman 5-6126)
Purch. Agent: H. A. Schnaeckel
Sales Mgr.: Nils G. Strid **TS, R&D**

DELTA CHEMICAL WORKS, INC.
23 W. 60th St., New York 23, N. Y. (Tel. PLaza 7-6317)
Asst. Dir.-Purch.: P. K. Massey
Comptroller: Max Lendner
MF, WN, PS, GS, GH, GE

DELTA DESIGN ENGINEERS, INC.
3163 Adams Ave., San Diego 16, Calif. (Tel. AT 3-3193)
Pres.: Trigg Stewart
V. P.: David P. Comey
Sales Mgr.: D. H. Evans, Jr. **TS**

DELTA PRODUCTS DIV.-AIR ACCESSORIES, INC.
1400 Henderson St., P. O. Box 1440, Ft. Worth, Texas (Tel. EDison 5-3214)
Chief-Materials: Donald M. Miles
Purch. Agent: Thomas Swann
Asst. Purch. Agents: Marvin Thompson & Richard Long
Sales Mgr.: Ray Goudeau **GS, GH, MM**

DELUXE METAL PRODUCTS CO.
Warren, Pa. (Tel. 1791)
Purch. Agent: V. E. Finzer
Gen. Sales Mgr.: R. H. Hauser **GH**

DEMING CO., THE
South Broadway, Salem, Ohio
V. P.-Sales: R. F. Webber
Sales Prom. Mgr.: G. E. Trisler **GS**

DEMORNAY-BONARDI
780 S. Arroyo Pkwy., Pasadena, Calif. (Tel. SYcamore 2-4142)
Dir.-Purch: Herbert J. McCann
Sales: M. G. Ekstrom **GS, GH, CO, TS, TR, R&D**

DENISON ENGRG. DIV., AMERICAN BRAKE SHOE CO.
1160 Dublin Rd., Columbus 16, O. (Tel. HUdson 8-1191)
Dir.-Purch.: G. T. Hays
Gen. Sales Mgr.: R. H. Krepps
Dir.-Sales: Denison Neale **GS, GH, TS**

DENNIS CHEMICAL CO.
2701 Papin St., St. Louis 3, Mo. (Tel. PRospect 6-1868)
Purch. Agent: L. R. Pope
Sales Mgr.: Milton Carlie **MM, R&D**

DERINGER METALLURGICAL CORP.
8131 Monticello Ave., Skokie, Ill. (Tel. ORchard 5-1030)
Pres.: Edwin F. Allison
Exec. V. P.: J. Porter Duell, Jr.
Purch. Agent: Quintin E. Wiersum
Sales Mgr.: Paul H. Loeffler **MM**

A. L. DERY & SONS TOOL & DIE CO.
Main St., Pine Meadow, Conn. (Tel. FRontier 9-4951)
Sr. Partner: Aldege L. Dery
Jr. Partner: Edmund E. Dery
WN, GS, GH, GE, CO, TS, TR

DESIGNERS FOR INDUSTRY, INC.
4241 Fulton Pkwy., Cleveland, Ohio

DESMOND-STEPHAN MFG. CO., THE
Urbana, Ohio

DESOMATIC PRODUCTS, INC.
1109 W. Broad St., Falls Church, Va. (Tel. JEfferson 3-9600)
Purch. Agent: M. W. Reed
Exec. V. P.-Sales: Gunnar C. F. Asker
GS, TS, R&D

DESTRON CO.
1321 Florwood Ave., Torrance, Calif. (Tel. FA 8-0579)
Gen. Mgr.: D. E. St. John **GS, GE, CO, TS, TR**

DETREX CHEMICAL INDUSTRIES, INC.
Box 501, Detroit 32, Mich. (Tel. TOwnsend 8-8600)
V. P.-Sales: W. F. Newbery **GS, GH, MM**

DETROIT DIESEL ENGINE DIV.-GENERAL MOTORS CORP.
13400 W. Outer Dr., Detroit 28, Mich. (Tel. KE 1-7100)
Mgr.-Purch. & Prod.: John E. McKenna
Gen. Sales Mgr.: Robert E. Hunter **PS**

DETROIT HOIST & MACHINE CO.
8201 Morrow St., Detroit 11, Mich. (Tel. TR 5-8344)
Purch. Agent: J. S. Kolasa
Sales Engr.: V. A. Fulton **GH**

DETRONIC INDUSTRIES
33840 Plymouth Rd., Livonia, Mich. (Tel. GA 4-4700)
Dir.-Purch.: C. Miller
Dir.-Sales: J. M. Wheeler **GE, TS, R&D**

DEUTSCH FASTENER CORP.
14504 S. Figueroa St., P. O. Box 61072, Los Angeles 61, Calif. (Tel. DAvis 3-6640)
Purch. Agent: A. Hicks
V. P. & Sales Mgr.: B. S. Sauter **MF, GS**

DEVCO ENGRG. INC.
Pier Lane West, Caldwell, N. J. (Tel. CA 6-0610)
Purch. Agent: G. Schmidt
Sales: C. Allen
MF, WN, PS, GH, GE, CO, TS, TR

DEVCON CORP.
Endicott St., Danvers, Mass. (Tel. SP 4-1990)
Dir.-Sales: E. L. Hall **MM**

DEVELOPMENT ENGRG. CO., INC.
9 Cross St., Norwalk, Conn. (Tel. VOlunteer 6-7720)
Chief Engr.: Richard L. Seidman

DEVICE DEVELOPMENT CORP.
428 Boston Post Rd., Weston 93, Mass. (Tel. TW 3-0300)
Dir.-Purch.: H. Stacey
Dir.-Sales: R. B. Holt **GE, TR, R&D**

DeVILBISS CO., THE
300 Phillips Ave., Toledo, O. (Tel. GReenwood 4-5411)
Mgr.-Adv. & Sales Prom.: H. A. Lange
MF, PS, GS, GH

DeWALT DIV., AMERICAN MACHINE & FOUNDRY CO.
Fountain Ave., Lancaster, Pa. (Tel. EXpress 3-5831)
V. P. & Gen. Sales Mgr.: Truman Jones
Purch. Agent: Frank Zecher **MM**

DeWITT DEVELOPMENT CO.
3008 W. 127th St., Blue Island, Ill. (Tel. FUlton 8-2480)
Pres.: B. G. DeWitt **MM**

DIAL PRODUCTS CO.
9 Ave. "E", Bayonne, N. J. (Tel. HEmlock 7-0720)
V. P.-Purch.: Paul Schechter
Sales Mgr.: E. Kay **PS, GS, GH, GE**

DIALIGHT CORP.
60 Stewart Ave., Brooklyn 37, N. Y. (Tel. HYacinth 7-7600)
Purch. Agent: E. S. Forman
Sales: R. E. Greene **GS, GH, GE, CO, TS, TR**

DIAMOND ANTENNA & MICROWAVE CORP.
7 North Ave., Wakefield, Mass. (Tel. CRystal 9-4650)
Purch. Agent: William L. Page
Asst. Purch. Agent: William Rand
Gen. Mgr.-Sales: Albert S. Hovannesian
WN, PS, GE, CO, TS, TR

DIAMOND DRILL CARBON CO., THE
244 Madison Ave., New York 16, N. Y. (Tel. LExington 2-3006)
Sales: Bernard Rhodes **MM**

DIAMONITE PRODUCTS MFG. CO.
Shreve, Ohio (Tel. JO 7-4211)
Dir.-Purch.: R. J. Uhl
Sales Engr.: R. C. Mulligan **MM**

DI/AN CONTROLS, INC.
40 Leon St., Boston 15, Mass. (Tel. HIghlands 5-5640)

CODING

Missile Frame	MF
Warhead & Nose Cone	WN
Propulsion System	PS
Ground Support	GS
Ground Handling	GH
Guidance Equipment	GE
Checkout Equipment	CO
Test Equipment	TS
Tracking & Telemetering	TR
Research & Development	R&D
Materials & Metals	MM

Purch. Agent: Walter A. Kaminski
Tech. Sales Mgr.: Nathan O. Sokal GS, CO, TS

J. W. DICE CO.
16 Highwood Ave., Englewood, N. J. (Tel. LOwell 9-0471)
Chief Engr.: M. Strain
Purch. Agent: E. Franz
Sales: E. Van Ressel TS

DIEHL MFG. CO.
1224 Finderne Ave., Somerville, N. J. (Tel. RAndolph 5-2200)
Purch. Agent: F. Boyne
V. P.-Sales: A. R. Booth GE

DIELECTRIC MATERIALS CO.
5315-17 N. Ravenswood Ave., Chicago 40, Ill. (Tel. LOngbeach 1-5833)
Purch. Agent: O. C. Muenzer
Asst. Purch. Agent: Charles Kling MM

HENRY G. DIETZ CO., INC.
12-16 Astoria Blvd., Long Island City 2, N. Y. (Tel. RAvenswood 6-3347)
Pres.: Henry G. Dietz
Secy.: M. Pheasey GS

DIETZ DESIGN & MFG. CO.
Grandview, Mo. (Tel. SOuth 1-7216)
Purch. Agent: L. M. Dietz
Sales Mgr.: E. C. Dietz GE, TR

DIGITRONICS CORP.
Albertson Ave., Albertson, N. Y. (Tel. PI 7-5090)
Purch. Agent: Angelo Targia
V. P.-Sales: Eugene Leonard GS, CO

DILECTRIX CORP.
Allen Blvd., Farmingdale, L. I., N. Y. (Tel. CHapel 9-7999)
Purch. Agent: M. Petriello
Sales Mgr.: M. Zangrillo MF, PS, GE, TR

W. C. DILLON & CO., INC.
14620 Keswick St., Van Nuys, Calif. (Tel. STate 5-3168)
Purch. Agent: Earl D. Roberts
Sales Mgr.: George A. Dillon TS, MM

DIMCO-GRAY CO.
207 E. 6th St., Dayton 2, O. (Tel. BAldwin 2-6703)
Purch.: J. D. Gray
Sales Mgr.: C. F. Dearth MF, PS, GS, GE, CO

DINION COIL CO., INC.
North St., Caledonia, N. Y. (Tel. KEystone 8-4412)
Purch. Agent: R. S. Eldridge
V. P. & Sales Mgr.: E. J. Holland GE

DIRILYTE CO. OF AMERICA, INC.
P. O. Box 747, 1142 S. Main St., Kokomo, Ind. (Tel. GLadstone 2-5688)
V. P. & Secy.: Robert R. Arnett MF, MM

DIT-MCO, INC., ELECTRONICS DIV.
911 Broadway, Kansas City 5, Mo. (Tel. HArrison 1-8484)
Purch. Agent: William O. Britt
V. P.-Mktg.: W. W. Hannon GS, GH, CO, TS

DIVCO-WAYNE ELECTRONICS DIV., DIVCO-WAYNE CORP.
9701 Reading Rd., Cincinnati 15, Ohio (Tel. POplar 1-0010)
Purch. Agent: T. C. Grote
Dir.-Sales: Gene Rove GE, TS, TR, R&D

DIVERSEY ENGRG. CO.
10550 W. Anderson Place, Franklin Park, Ill. (Tel. GLadstone 1-0200)
Purch. Agent: Walter Klaske
Asst. to Pres.: John Switack
MF, WN, PS, GS, GH, GE, MM, R&D

DIVISION LEAD CO.
7742 W. 61st Place, Summit, Ill. (Tel. Chicago—REliance 5-8600)
Purch. Agent: Mary J. Spacek MM

DIXON CORP.
19-21 Burnside St., Bristol, R. I. (Tel. CLifford 3-7500)
Purch. Agent: Gerald Almeida
V. P.-Sales: John M. Feeley MM

DOCKENDORFF & CO. INC.
606 Lindley St., Bridgeport 6, Conn. (Tel. ED 4-7329)
Purch. Agent: J. M. Dockendorff
Sales Mgr.: W. M. Bacon MM

DODGE MFG. CORP.
S. Union St., Mishawaka, Ind. (Tel. BLackburn 9-2421)
V. P.-Prod. & Purch.: Earl Wedlake
Dir.-Prod. & Purch.: Donald Saunter
Purch. Agent: Edwin Rhodes
Asst. Purch. Agent: Clifford Miller
Steel Buyer: Clifford Mechling
V. P.-Sales: Harry A. Torson GS, GH, GE

DODGE STEEL CO.
6501 State Rd., Philadelphia 36, Pa. (Tel. DEvonshire 2-2200)
Purch. Agent: R. Miller
Sales Mgr.: Morris Neeley

DOEHLER-JARVIS DIV., NATIONAL LEAD CO.
1945 Smead Ave., Toledo 1, Ohio (Tel. CHerry 4-9521)
Purch. Agent: Miss N. DiPersio
Mgr.-Sales: F. W. Burgie MM

DOLGORUKOV MFG. CO.
407 Fisher Bldg., Detroit 2, Mich. (Tel. TR 1-6383)
Dir.-Sales: Gregory S. Dolgorukov R&D

DOLINKO & WILKENS, INC.
1907 Summit Ave., Union City, N. J. (Tel. UNion 7-6630)
V. P.: Louis Dolinko GE, TR

DOLLIN CORP.
600 S. 21st St., Irvington, N. J. (Tel. ESsex 4-3000)
V. P.-Sales: Gordon C. Curry

DONNER SCIENTIFIC CO.
888 Galindo St., Concord, Calif. (Tel. MUlberry 2-6161)
Purch. Agent: W. H. Burr, Jr.
Dir.-Mktg.: Gene Hopkins GS, GE

DORNE & MARGOLIN, INC.
29 New York Ave., Westbury, L. I., N. Y. (Tel. EDgewood 4-3200)
Purch. Agent: J. Escalette
Buyer: O. M. Portocarrero
Sales Supvr.: David L. Ward GS, GE, TR

DORSETT LABS., INC.
P. O. Box 862, 401 E. Boyd St., Norman, Okla. (Tel. JEfferson 4-3750)
Secy.: H. L. Munde
Purch. Agent: D. K. Simpson
V. P.-Sales: D. G. Wantland TR, R&D

DORSEY TRAILER
401 Hickman, Elba, Ala.

DOTY ACOUSTICA ELECTRONIC LABS.
Tobyhanna, Pa. (Tel. TW 4-8117)
Engr.-Purch.: Jose Masri GE, TS

DOUBLE "E" PRODUCTS CO.
208 Standard St., El Segundo, Calif. (Tel. EAstgate 2-2501)
Purch. Agent: Stanley S. Trier
Sales Mgr.: J. S. Trier PS, GS, GH, GE, CO, TS

DOUGLAS AIRCRAFT CO., INC.
3000 Ocean Park Blvd., Santa Monica, Calif. (Tel. EXbrook 9-9311)
Dir.-Materiel: W. E. Doran
V. P.-Sales: N. Paschall
MF, GS, GH, CO, TS, TR, MM, R&D

DOUGLAS MICROWAVE CO., INC.
252 E. Third St., Mt. Vernon, N. Y. (Tel. MOunt Vernon 8-6900)
Purch. Agent: Leonard G. Geier
Sales Mgr.: Herbert M. Hendlin R&D

TURNER F. DOW
261 Oakridge Dr., Rochester 17, N. Y.
Turner F. Dow

DOW CHEMICAL CO., THE
Midland, Mich. (Tel. MElrose 6-1000)
Dir.-Purch.: M. E. Lefevre
Dir.-Sales: D. K. Ballman

***DOW CORNING CORP.**
Midland, Mich. (Tel. TEmple 2-2371)
Mgr.-Purch. & Stores: D. R. Coultrip
V. P. & Sales Mgr.: O. D. Blessing MM
*(See Page 10 for Advertisement)

DOW-ELCO, INC.
1313 W. Olympic Blvd., Montebello, Calif. (Tel. RAymond 3-1288)
Pres.: J. W. Eldridge GS, GH

DOWELL DIV.-THE DOW CHEMICAL CO.
P. O. Box 536, Tulsa, Okla. (Tel. RI 2-5501)
Chief Purch. Agent: V. M. Lewis
Dir.-Sales: R. H. Smith

DOYLE & ROTH MFG. CO., INC.
136 S. Twenty Fourth St., Brooklyn 32, N. Y. (Tel. SOuth 8-3800)
Purch. Agent: Richard Zino
Sales Mgr.: Richard S. Hall

B. F. DRAKENFELD & CO., INC.
Box 519, Washington, Pa. (Tel. BAldwin 5-5600)
Purch. Agent: F. K. Eakin
V. P.-Sales: Irwin F. Zeiller MM, R&D

DRAYER-HANSON DIV., NATIONAL-U. S. RADIATOR CORP.
P. O. Box 2215, Terminal Annex, Los Angeles 54, Calif. (Tel. ANgelus 9-0321)
Purch. Agent: E. E. Petro
Sales Mgr.: I. B. Secord GS

DREMEL MFG. CO.
2420 18th St., Racine, Wisc. (Tel. MElrose 3-8267)
E. A. Erdman GS

DRESSEN-BARNES CORP.
250 Vinedo Ave., Pasadena, Calif. (Tel. RYan 1-0643)
Sales Mgr.: George A. Hall GS

DRESSER ELECTRIC CO.
2705 Wight St., Detroit 7, Mich. (Tel. LOrain 8-1855)
Purch. Agent: A. J. Hluylaert
Sales Dir.: D. P. Friedt GS

DRESSER INDUSTRIES, INC.
Republic Natl. Bank Bldg., Dallas, Tex. (Tel. RIverside 8-6411)
Dir.-Purch.: Robert C. Kelley
Asst. Dir.-Purch.: Robert D. Crane
GS, GH, CO, TS, MM, R&D

DRESSER MFG. DIV., DRESSER INDUSTRIES, INC.
41 Fisher Ave., Bradford, Pa. (Tel. BRadford 3131)
Acting Purch. Mgr.: G. G. Thomas
Supvr.-Purch.: W. L. Dawson
Sales Mgr.: George R. Leonard MF, WN, PS, MM

DRESSER-IDECO CO., DIV.-DRESSER INDUSTRIES, INC.
875 Michigan Ave., Columbus 8, Ohio (Tel. AXminster 9-2123)
Dir.-Purch.: Leo Wildermuth
Asst. Purch. Agent: E. L. Frey GS, GH, TR

DRIAIRE, INC.
132 S. Main St., South Norwalk, Conn. (Tel. TEmple 8-0686)
Mgr.-Purch.: M. S. Miller
Mgr.-Prod.: R. W. Haines
Mgr.-Maintenance: J. Hollis
Mgr.-Sales: J. H. Donovan MM

WILBUR B. DRIVER CO.
1875 McCarter Hwy., Newark 4, N. J. (Tel. HUmboldt 2-5550)
Purch. Agent: Edwin J. Looges
Asst. Purch. Agent: Arthur Knittel
V. P.-Sales: Norman P. Norlie MM

DRYOMATIC CORP.
806 N. Fairfax St., Alexandria, Va. (Tel. KIng 9-3060)
Purch. Agent: C. E. Wells
Sales Mgr.: Anthony Hass GS, GH

DU-CO CERAMICS CO.
Box 278, Saxonburg, Pa. (Tel. FL 2-1511)
Pres.: John J. Duke MM, R&D

M. DUCOMMUN CO.
580 Fifth Ave., New York 36, N. Y. (Tel. PLaza 7-2540)
Mgr.: A. G. Stepchuk GE, CO, TS

R. C. DUDEK & CO.
407 N. Maple Dr., Beverly Hills, Calif. (Tel. BRadshaw 2-8097)
Richard C. Dudek GS, GE

DU KANE CORP.
St. Charles, Ill. (Tel. 2300)
Purch. Mgr.: E. E. Swick
Purch. Agent: R. H. Magden
Mgr.-Govt. & Contract Div.: R. W. Robbins
GS, GE, CO, TS, TR

DUKES CO., INC
3999 N. 25th Ave., Schiller Park, Ill. (Tel. GLadstone 5-5795)
Purch. Agent: G. Tidd
Sales Mgr.: J. C. Wetter GS, GH

DUMONT AIRCRAFT FITTING CO.
1401 Freeman Ave., Long Beach 4, Calif. (Tel. GE 3-4931)
Gen. Mgr.: Harry Pohner
Buyers: Helen Hoffman & Shirley Wedekind
Sales Mgr.: Fritzie Williams
MF, WN, PS, GS, GH, GE, MM

DUMONT AVIATION ASSOCIATES
1401 Freeman Ave., Long Beach 4, Calif. (Tel. 3-4931)
Purch. Agent: George MacRae
Buyer: Pat Welsh
Sales Mgr.: E. J. Easterbrook
MF, WN, PS, GS, GH, TS, TR

DUNBAR-KAPPLE INC.-AIRCRAFT COMPONENTS DIV.

Island Ave., Batavia, Ill. (Tel. BAtavia 5400)
Mgr.-Procurement: E. Ricker
Buyer: J. Vanliersburg
Sales Mgr., Aircraft Div.: H. M. Lockhart
MF, GS, R&D

DUNHAM-BUSH INC.
West Hartford, Conn. (Tel. CHapel 9-8671)
V. P.-Purch.: Frank Corney
Purch. Agent: T. Logan
V. P.-Sales: J. A. Mulcahey **GS, GE**

DUNLAP & ASSOCIATES, INC.
429 Atlantic St., Stamford, Conn. (Tel. FIreside 8-9271)
Treas.: A. M. Miller
V. P.: H. E. Blank, Jr. **R&D**

M. W. DUNTON CO. INC., THE
No. 7 Goff St., Providence, R. I. (Tel. DExter 1-3600)
V. P. & Gen. Mgr.: Raymond T. Wilber **MM**

DUOTONE CO., INC.
Locust St., Keyport, N. J. (Tel. COlfax 4-2200)
Pres.: Stephen Nester
V. P.-Purch.: B. Rosenberg

E. I. DU PONT DE NEMOURS & CO. INC.
2537 Nemours Bldg., Wilmington 98, Del. (Tel. PRospect 4-3373)
Purch. Agent: E. N. Burlinson
Asst. Purch. Agent: W. Biongt
Sales: M. N. Nickowitz **MM**

E. I. DU PONT DE NEMOURS & CO. INC., PHOTO PRODUCTS DEPT.
Wilmington 98, Del.
Dir.-Sales: H. L. Graham **TS**

DURACOTE CORP.
350 N. Diamond St., Ravenna, O. (Tel. AXminster 6-3487)
V. P.-Purch.: W. Randle Truog
Pres.: John B. Schneller **MM, R&D**

DURAKOOL, INC.
1010 N. Main St., Elkhart, Ind. (Tel. 3-3160)
Purch. Agent: J. B. Witcher
Sales & Product Mgr.: V. H. Hoehn **GS, GH**

DURALITH CORP.
1025 Race St., Philadelphia 7, Pa. (Tel. WAlnut 3-1900)
Gen. Sales Mgr.: Jack M. Smith **MM**

DURALOY CO., THE
Bridge St., Scottdale, Pa. (Tel. TUrner 7-5100)
Purch. Agent: B. W. Lydic
Gen. Sales Mgr.: Jack B. Dear

DURAMARK, INC.
2 Secatoag Ave., Port Washington, N. Y. (Tel. Port Washington 7-3232)
Purch. Agent: Mrs. Ada P. Schweder
V. P.-Sales: Andrew T. Callan

DURAMETALLIC CORP.
Factory St., Kalamazoo, Mich. (Tel. FI 3-2688)
Purch. Agent: Miss Fern Thrall
V. P. & Sales Mgr.: Roscoe R. Smith

DURAMIC PRODUCTS INC.
262-72 Mott St., New York 12, N. Y. (Tel. WAlker 5-1644)
Purch. Agent: C. Saso
Sales Mgr.: H. Schwartz **MM**

DURANT MFG. CO.
1955 N. Buffum, Milwaukee 1, Wisc. (Tel. LOcust 2-5035)
Purch. Agent: A. M. Jones
Sales Mgr.: Robert B. Winkler **CO, TS, TR**

DUREZ PLASTICS DIV., HOOKER CHEMICAL CORP.
1980 Walck Rd., North Tonawanda, N. Y. (Tel. LU 1860)
Purch. Mgr.: C. W. Selover
Gen. Sales Mgr.: A. W. Hanmer, Jr. **R&D**

DURO SPECIALTY CO., INC.
811 Boston St., Lynn, Mass. (Tel. LYnn 3-3585)
Purch. Agent: William I. Frankel
Sales Dir.: S. Joseph Hoffman **MM**

DYCHRO CORP.
12 Centre Ave., Newton 58, Mass. (Tel. DEcatur 2-7307)
Purch. Agent: Arthur A. Goldberg **TR**

DYMEC INC.
395 Page Mill Rd., Palo Alto, Calif. (Tel. DAvenport 6-1755)
Purch. Agent: Dale D. DeWitt
Mgr., Instrument Sales: E. C. Morgan
GS, GE, CO, TS, TR

DYNACOR, INC.
10431 Metropolitan Ave., Kensington, Md. (Tel. LOckwood 4-8120)
Chief Purch. Agent: P. W. Waymoth
Buyer: Henry Veazey **MM**

DYNAMETRICS CORP.
N. W. Industrial Park, Burlington, Mass. (Tel. BRowning 2-1600)
Mfg. Mgr.: Fred Hugel
Buyer & Sub-Contract: Malcolm Winsor
Sales Mgr.: John F. Clough **GS, CO, TS, R&D**

DYNAMIC CONTROLS CO.
1955 Massachusetts Ave., Cambridge, Mass. (Tel. ELiot 4-3633)
Dir.-Purch.: L. J. Dougall
Dir.-Sales: J. J. Gano **GS**

DYNAMIC CONTROLS CORP.
30 Thomas St., E. Hartford, Conn. (Tel. BU 9-5906)
Purch. Mgr.: F. Roth
Gen. Mgr.: T. P. Farkas
MF, WN, PS, GS, GH, R&D

DYNAMIC DEVICES, INC.
P. O. Box 843, Denville, N. J. (Tel. MI 2-7083)
V. P.-Purch.: John C. Stienberg
Pres.: C. E. Kastner, Jr. **PS, GS, TS, R&D**

DYNAMIC FILTERS INC.
2100 Howard St., Detroit 16, Mich. (Tel. TAshmoo 6-4107)
Purch. Agent: A. L. Pomaville
Dir.-Sales: Ray Okonski **PS, TS, R&D**

DYNAMIC GEAR CO., INC.
20 Merrick Rd., Amityville, L. I., N. Y. (Tel. AM 4-4788)
Purch. Agent: Jaques Edeline
Asst. Buyer: Adam Kuby
Sales Mgr.: Thomas J. Smith **GE, TR, R&D**

DYNAMIC INSTRUMENT CO., INC.
42 Carleton St., Cambridge 42, Mass. (Tel. UN 4-7260)
Of. Mgr.-Purch.: Dan Shea
Chief Engrg.: Harvey Paston **PS, GE, CO, TS, TR**

DYNAMIC INSTRUMENT CORP.
59 New York Ave., Westbury, L. I., N. Y. (Tel. EDgewood 3-1600)
Buyer: Robert J. Messina
Gen. Mgr.-Sales: Harold E. Sulger

DYNAMICS INSTRUMENTATION CO., DIV.-ALBERHILL CORP.
1118 Mission St., South Pasadena, Calif. (Tel. RY 1-3318)
Div. Mgr. & Purch. Agent: Nathan Brownstone
Sales Mgr.: O. E. Strickland
Mgr.-Mktg.: Geoffrey H. Grey **R&D**

DYNA-THERM CHEMICAL CORP.
3813 Hoke Ave., Culver City, Calif. (Tel. TExas 0-4751)
Purch. Agent: J. M. Maddock
V. P.-Sales: Larry Vernon
V. P.-Research: Jerry Gabriel **MM, R&D**

DYTRONICS CO.
P. O. Box 3676, Columbus 14, Ohio (Tel. AM 3-0890)
Dir.-Purch. P. Ryan
Sales Mgr.: K. Gregersen **TS, R&D**

EFCON (ELECTRONIC FABRICATORS, INC.)
682 Broadway, New York 12, N. Y. (Tel SPring 7-4900)
V. P.-Sales: Mitchel Samuels **MM**

ESC CORP.
534 Bergen Blvd., Palisades Park, N. J. (Tel. WIndsor 7-0400)
Purch. Agent: J. Curtin
V. P.-Sales: Stanley S. Packer **GE, CO, TS, TR**

E-Z-HOOK TEST PRODUCTS
1536 Woodburn Ave., Covington, Ky. (Tel. COlonial 1-1495)
Sales Mgr.: Robert N Younger **TS**

E-Z WAY TEMPLATES
P. O. Box 535, Reseda, Calif.
Gen. Mgr.: W. Juran

EAGLE ELECTRIC MFG. CO. INC.
23-10 Bridge Plaza S., Long Island City 1, N. Y. (Tel. ST 4-9200)
Purch. Agent: I. Sobol
Asst. Purch. Agent: A. Feiner
Sales Mgr.: S. Jay Atkin

EAGLE OTTAWA LEATHER CO.
P. O. Box 308, Beachtree St., Grand Haven, Michigan (Tel. 8)
Purch. Agent: E. O. Harbeck
Sales Mgr.: Milto E. Burr

EAGLE-PICHER CO., THE
American Bldg., Cincinnati 1, O. (Tel. PArkway 1 7010)
Dir.-Sales: D R. Carter **WN, GE, TR, MM, R&D**

EAST COAST AERONAUTICS, INC.
10 Pelham Pkwy., Pelham, N. Y.

EAST DAYTON TOOL & DIE CO., THE
1425 Keowee St., Dayton 4, O.

EASTERN INDUSTRIES INC.
100 Skiff St., Hamden 14, Conn (Tel. CHestnut 8-3841)
Purch. Agent: C. Phillips
Asst. Purch. Agent: R. Jerzyk
Sales Mgr.: H. W. Whitaker
MF, WN, GS, GH, GE, R&D

EASTERN JEWEL CORP.
Rego Park 74, N. Y. (Tel. BOulevard 1-8072)
Purch. Dept.: Melvin Marcus

EASTERN SMELTING & REFINING CORP.
109 W. Brookline St., Boston 18, Mass. (Tel COmmonwealth 6-7504)
Treas.: Maurice G. Alperin
Comptroller: Frank E. Wandrey **MM**

EASTERN SPECIALTY CO., THE
3617 N. Eight, Philadelphia 40, Pa. (Tel. BAldwin 8-0500)
Dir.-Purch.: H. F. McGinley
Dir.-Sales: Edward P Cornely **TS, MM**

EASTERN STAINLESS STEEL CORP.
P. O. Box 1975, Baltimore 3, Md. (Tel. ATwater 8-2000)
Buyer: E. J. Thon
V. P.-Sales: R. C. Cunningham **MF, PS**

EASTMAN KODAK CO.
343 State St., Rochester, N Y. (Tel LOcust 2-6000)
Stacey F. Oakes **GS, GE, CO, TS, TR**

EATON ELECTRONICS CORP.
Eaton Ave., Moodus, Conn. (Tel. TRiangle 3-8628)
Sales Mgr.: Joseph O. Eaton, Jr. **GS, GE, TR**

EATON MFG. CO.
739 E. 140th St., Cleveland 10, O. (Tel GLenville 1-5600)
Dir.-Purch.: H. A. Williams
Dir.-Sales: R. E. Fisher

EATON MFG. CO., AIRCRAFT DIV.
Avenue "C", Battle Creek, Mich. (Tel. WOodward 2-8751)
Purch. Agent: Robert Stevens
Sales Mgr.: Hal Reigner **PS**

EATON MFG. CO., RELIANCE DIV.
25 Charles Ave., S. E., Massillon, Ohio (Tel. TE 2-1511)
Div. Purch. Agent: J. W. Morton
Buyer: W. Matthey
Gen. Sales Mgr.: R. B. Little **MM**

EBERT ELECTRONICS CORP.
212-26 Jamaica Ave., Queens Village 28, N. Y. (Tel. SPruce 6-1800)
Purch. Agent: L. Mitchell
Sales Mgr.: V. Horowitz **GS, GH, CO**

ECKEL VALVE CO.
1425 First St., San Fernando, Calif. (Tel. EMpire 1-6251)
Purch. Agent: Edward Beinfest
Gen. Mgr.: J. R. Bly

ECKOL PACKAGING CO.
3001 W. Columbia Ave., Philadelphia 21, Pa. (Tel. STevenson 7-6172)
Purch. Agent: Rodger Weltman
Sales Mgr.: Herbert R. Locke **MF, PS, GS, GH**

ECO ENGRG. CO.
12 New York Ave., Newark 1, N. J. (Tel. MArket 4-6565)
Purch. Agent: Vernon Davis
Sales Mgr.: James Eisenberg **GS, GH, MM, R&D**

ECONOWELD CORP.
519 Hunter Ave., Dayton, O. (Tel. BAldwin 3-7295)
V. P.-Purch.: Bart Wilgus
Engr. Sales: C. A. Thomas **GS, GH**

ED-BERL PRODUCTS, INC.
96 S. Grand Ave., Baldwin, L. I., N. Y. (Tel. BAldwin 3-1636)
Dir.-Purch.: Fred W. Will
V. P.-Sales: Howard Kaufman **R&D**

CODING

Missile Frame	MF
Warhead & Nose Cone	WN
Propulsion System	PS
Ground Support	GS
Ground Handling	GH
Guidance Equipment	GE
Checkout Equipment	CO
Test Equipment	TS
Tracking & Telemetering	TR
Research & Development	R&D
Materials & Metals	MM

EDCLIFF INSTRUMENTS
1711 S. Mountain Ave., Monrovia, Calif. (Tel. ELliott 8-4571)
Purch. Agent: John Smith
Mgr., Engrg. & Tech. Services: John R. Thompson
GS, GH, GE, CO, TS, R&D

EDDINGTON METAL SPECIALTY CO.
3088 Bristol Pike, Eddington, Pa. (Tel. MErcury 9-3600; ORchard 3-8383)
Purch. Agents: Walter V. Czarnecki, Jr., Casimer M. Czarnecki, Wesley Czarnecki, Stanley Czarnecki
Engr.-Sales: Richard Connell PS, R&D

EDER ENGRG. CO., INC.
1568 S. First St., Milwaukee 4, Wisc. (Tel. EVergreen 3-3900)
Purch. Agent: Anthony J. Mis
Pres.: Harvey P. Eder TS, R&D

EDER INSTRUMENT CO. INC.
2293 N. Clybourn Ave., Chicago 14, Ill. (Tel. EAstgate 7-2131)
Sales: L. Streifeneder

EDGERTON, GERMESHAUSEN & GRIER, INC.
160 Brookline Ave., Boston 15, Mass. (Tel. COpley 7-9700)
Dir.-Product Sales: R. L. Purrington, (Tel. COpley 7-9540) GS, GH, TR, R&D

EDGEWATER STEEL CO.
Box 478, Pittsburgh 30, Pa. (Tel. OAkmont 280)
Purch. Agent: L. W. Engel
Asst. Purch. Agent: W. Schano
Gen. Mgr.-Sales: W. M. Cree
Mgr., Indsl. Sales: W. O. Fleming MM

EDIN, DIV.-EPSCO, INC.
207 Main St., Worcester 8, Mass. (Tel. PLeasant 7-8394)
Gen. Sales Mgr.: Daniel R. Berne TS, TR

THOMAS A. EDISON IND. INSTRUMENT DIV.-McGRAW-EDISON CO.
85 Lakeside Ave., W. Orange, N. J. (Tel. ORange 3-6800)
Purch. Agent: Alex N. Teilschak
Purch.: Harry Keirnan, Richard A. Brennan & Thomas M. Callahan
Gen. Sales Mgr.: George J. Bindewald GE, R&D

EDMUND SCIENTIFIC CO.
101 E. Gloucester Pike, Barrington, N. J. (Tel. LIncoln 7-3488)
Pres.: Norman W. Edmund

EDWARDS ENGRG. CO.
21 Yennicock Ave., Port Washington, N. Y. (Tel. PO 7-6700)
Gen. Mgr.: John E. Kane TS, TR

EICOR DIV.-SCRANTON
4059 W. North Ave., Chicago, Ill. (Tel. HUmbolt 6-2060)
Purch. Agent: R. Farneti, 517 W. Walnut St., Oglesby, Ill. (Tel. 3-8453)

EIDAL MFG. CO., INC.
250 Woodward Rd., S. E., Albuquerque, N. M. (Tel. CHapel 2-5223)
Purch. Agent: W. A. Muff
V. P.-Sales: S. J. Woodin GH

EISLER ENGRG. CO., INC.
769 S. 13th St., Newark 3, N. J. (Tel. BIgelow 3-5310)
Pres.: Charles Eisler, Jr.

EITEL-McCULLOUGH, INC.
301 Industrial Way, San Carlos, Calif. (Tel. LYtell 1-1451)
Purch. Agent: Donald Rogers
Mgr.-Proc.: John Stenson
Dir.-Mktg.: O. H. Brown GE, TR

ELASTIC STOP NUT CORP. OF AMERICA
2330 Vauxhall Rd., Union, N. J. (Tel. MUrdock 6-6000)
Purch. Agent: Everett F. Howell
Gen. Sales Mgr.: D. E. Lally MF, PS, GS, MM, R&D

ELCO CORP.
"M" St. Below Erie Ave., Philadelphia 24, Pa. (Tel. CUmberland 9-5500)
Purch. Agent: Henry Marks
V. P.-Sales: Leo Kagan
GS, GH, GE, CO, TS, TR, R&D

ELCOR, INC.
1225 W. Broad St., Falls Church, Va. (Tel. JEfferson 2-7718)
Bus. Mgr.: Edmund Smallwood
Pres.: John H. Reaves R&D

ELDEMA CORP.
1805 Belcroft Ave., El Monte, Calif. (Tel. GIlbert 4-7077)
Purch. Agent: Russel Jones
V. P.-Sales: J. A. Moore
GH, GE, CO, TS, TR, R&D

ELDORADO ELECTRONICS
2821 10th St., Berkeley, Calif. (Tel. THornwall 1-4613)
Purch. Agent: A. E. Cummins
Sales Mgr.: J. H. Werlin TR, R&D

ELECTRA MFG. CO.
4051 Broadway, Kansas City, Mo. (Tel. WEstport 1-6864)
Purch. Agent: D. E. Aitken
V. P.-Electronic Sales: R. R. Burton
Sales Mgr., Resistor Dept.: R. T. Means
GE, TS, TR, R&D

ELECTRALAB INC.
Industrial Ctr., Needham Hts., Mass. (Tel. HIllcrest 4-5000)
Purch. Agent: H. Vaughn
Materials Control: K. B. Lorey
Sales Mgr.: W. G. Abbott GE, TR

ELECTRIC AUTO-LITE CO., THE
1201 Champlain St., Toledo 1, O. (Tel. CHerry 3-3131)
V. P.-Purch.: J. H. Lambrix R&D

ELECTRIC AUTO-LITE CO., THE, WIRE & CABLE DIV.
3529 24th St., Port Huron, Mich. (Tel. YUkon 5-6131)
Purch. Agent: A. L. Bailey
Gen. Sales Mgr.: D. M. Skirving
PS, GS, GH, GE, CO, TR

ELECTRIC CORDS & SUPPLY CORP.
413 E. Third St., Los Angeles 13, Calif. (Tel. MA 8-2278)
Purch. Agent: Alfreda Chandler
Sales Engr.: J. W. Hemphill GH, CO

ELECTRIC DESIGN & MFG. CO.
722 Jefferson St., Burlington, Iowa (Tel. PLaza 2-7685)
Pres.: Fred Bulmahn TS

ELECTRIC HEATER CO., THE
45 Seymour St., Stratford, Conn. (Tel. DRexel 8-2659)
Dir.-Purch.: W. E. Newbauer MF, WN, GS, GH, MM

ELECTRIC HOSE & RUBBER CO.
Wilmington, Del. (Tel. OLympia 5-6261)
Purch. Agent: S. M. Howard
Sales Mgr.: V. W. Wells PS, GS

ELECTRIC MACHINERY MFG. CO.
800 Central Ave., Minneapolis 13, Minn. (Tel. FEderal 9-6751)
Dir.-Purch.: J. Murnane
Purch. Agent: W. Fisher
Asst. Purch. Agents: Duane Larson, H. Roeger
V. P.-Sales: A. P. Burris GS

ELECTRIC MOTORS & SPECIALTIES, INC.
King & Hamsher Sts., Garrett, Ind. (Tel. 613)
Purch.: M. Bryant
Sales: J. A. Fuhrman TS

ELECTRIC PRODUCTS CO., THE
1725 Clarkstone Rd., Cleveland 12, Ohio (Tel. IVanhoe 1-1500)
Secy-Treas.: Robert J. Berry
Mgr., Power Equip. Div.: John H. Kellogg
GS, TR, R&D

ELECTRIC REGULATOR CORP.
Pearl St., Norwalk, Conn. (Tel. VI 7-2401)
Purch. Agent: E. Aaronson
Sales Mgr.: W. H. Walter GS, R&D

ELECTRIC STEEL FOUNDRY CO.
2141 N. W. 25th St., Portland 10, Ore. (Tel. CApital 8-2141)
Purch. Agent: Marvin E. Price
Gen. Sales Mgr.: Joe McQuaid MF, PS, GS, GH, MM

ELECTRIC TERMINAL CORP.
Warwick Industrial Park, Providence, R. I. (Tel. STuart 1-2189)
V. P.-Prod.: William Massie, Jr.
V. P.-Sales: N. MacNeil MM

***ELECTRICAL ENGRG. & MFG. CORP.**
4612 W. Jefferson Blvd., Los Angeles 16, Calif. (Tel. REpublic 3-0151)
Pres.: Frank Gindroz
Chief Engr.: Gerhard Mauric
*(See Page 110 for Advertisement)

ELECTRICAL INDUSTRIES, DIV.-PHILIPS ELECTRONICS, INC.
691 Central Ave., Murray Hill, N. J. (Tel. CRestview 7-4300)
Purch.: Clarence Graham, Nicholas Perna, & Risley Marsh
V. P.-Sales: Peter Muto MF, PS, GS, GE, TR

ELECTRICAL INSULATION CO., INC.
1245 Marconi Blvd., Copiague, L. I., N. Y. (Tel. AM 4-6190)
V. P.-Purch.: Robert S. Goldstein
Sales Mgr.: Gilbert Arm TS, TR

ELECTRICAL & MECHANICAL DESIGN CO.
P. O. Box 706, Clark, N. J. (Tel. FUlton 8-3381)
Purch. & Sales: Raymond E. Hall

ELECTRICAL REFRACTORIES CO., THE
East End, East Clark St., East Palestine, O. (Tel. GArden 6-9433)
Plant Supt.: Hector B. Moore
Gen. Mgr.: L. J. Turner MM

ELECTRICAL WINDINGS, INC.
2015 N. Kolmar Ave., Chicago, Ill. (Tel. BElmont 5-3360)
Purch. Agent: Arnold M. Topper
Sales Mgr.: L. C. Kammerer GS, GE, TS, TR

ELECTRO DEVELOPMENT CO.
14701 Keswick St., Van Nuys, Calif. (Tel. STate 6-3660)
Purch. Agent: Rick Geiger (Tel. ST 3-1850)
Sales Mgr.: R. Vaccarello GE

ELECTRO DEVELOPMENT CORP.
3939 University Way, Seattle 5, Wash. (Tel. MElrose 3-3094)
Pres.: G. Weinstein
Factory Mgr.: D. D'Angelo GS, GE, R&D

ELECTRO DEVICES INC.
580 Main St., Wilmington, Mass. (Tel. PArkview 9-2851)
Chief Engr.: A. A. Ryalls (Tel. TWinbrook 4-5988)
Sales Mgr.: Paul J. Post MM

ELECTRO ENGRG. WORKS
401 Preda St., San Leandro, Calif. (Tel. LO 9-3326)
Purch. Agent: Marvin C. Phillips
Sr. Buyer: Miss Lois C. Crigler
Sales Mgr.: Rex E. Brooks

ELECTRO INSTRUMENTS, INC.
3540 Aero Ct., San Diego 11, Calif. (Tel BRowning 7-6590)
Purch. Agent: Wade C. Gilliland, Jr.
Sales Mgr.: R. H. Applin
V. P.-Sales: Walter H. East GS, CO, TS, R&D

ELECTRO PRECISION CORP.
P. O. Box 669, Arkadelphia, Ark. (Tel. CHapel 6-2272)
Purch. Agent: Lanona Allen
Sales Mgr.: A. James Edwards GS, CO, TS, R&D

ELECTRO PRODUCTS LABS., INC.
4501 N. Ravenswood Ave., Chicago 40, Ill. (Tel. LOngbeach 1-1707)
Purch. Agent: E. V. Tetzner
Sales Mgr.: Lloyd A. Thatcher MM

ELECTRO TEC CORP.
10 Romanelli Ave., South Hackensack, N. J. (Tel. HUbbard 7-4940)
Dir.-Purch.: George Parigoris
Sales Mgr.: Eugene Parks
GS, GE, CO, TS, TR, R&D

ELECTRO TEC CORP., VIRGINIA DIV.
P. O. Box 219, Blacksburg, Va. (Tel. PRescott 2-8208)
Purch. Agent: Thomas F. Mantz
Sales Coordinator: Fred Sylvester, South Hackensack, N. J. (Tel. HUbbard 7-4940)
MF, PS, GE, TR

ELECTRO TECHNICAL PRODUCTS DIV., SUN CHEMICAL CORP.
113 E. Centre St., Nutley 10, N. J. (Tel. NUtley 2-7070)
Gen. Sales Mgr.: W. F. Hugger MM

ELECTRO-CAPACITORS CO.
10132 Edes Ave., Oakland 3, Calif. (Tel. LOckhaven 8-7910)
Sales Mgr.: H. Marquess GE, TR

ELECTROCRAFT, INC.
4432 N. Kedzie Ave., Chicago 25, Ill. (Tel. COrnelia 7-4011)
Sales: Stephen G. Richards
Buyer: Otto F. Leske MF, GS, GH, GE, TR

ELECTRODATA DIV.-BURROUGHS CORP.
460 Sierra Madre Villa, Pasadena, Calif. (Tel. SYcamore 3-6121)
Mgr.-Material Dept.: W. B. Wight
Mgr.-Sales Dept.: R. G. Dee GE, TR

ELECTROFILM, INC.
7116 Laurel Canyon Blvd., P. O. Box 106, N. Hollywood, Calif. (Tel. POplar 5-4420)
Purch. Agent: R. R. Schweger, Jr.
Gen. & Sales Mgr.: J. A. Droege MF, WN, PS, GS

ELECTRO-FLEX HEAT, INC.
83 Woodbine St., Hartford 6, Conn. (Tel. CHapel

6-5413)
Sales: Ronald J. Borrup PS

ELECTROL INC.
85 Grand St., Kingston, N. Y. (Tel. FEderal 1-1980)
Purch. Agent: J. Tyrrell
Sales Mgr.: D. C. Pierson PS, GS, GH

ELECTROMATH CORP.
42-14 Greenpoint Ave., Long Island City 4, N. Y. (Tel. STillwell 4-3483)
Purch. Agent: Frank G. Taylor
V. P.-Sales: Thomas A. D. Canova
Sales Promotion Dept.: Frank R. Parisi GE

ELECTRO-MEASUREMENTS, INC.
7524 S. W. Macadam, Portland 1, Ore. (Tel. CHerry 6-3332)
Purch. Agent: Lloyd Smith
Sales Mgr.: L. A. Morin GS, TS, R&D

ELECTRO-MEC LAB. INC.
47-51 33rd St., Long Island City 1, N. Y. (Tel. STillwell 6-3402)
Purch. Agent: Leo F. Ostar
Sales Mgr.: Forbes Morse GE, TS, TR

ELECTRO-MECHANICAL PRODUCTS CO.
32700 Ford Rd., Garden City, Mich. (Tel. LOgan 2-8900)
Chief Purch. Agent: Charles Hefner
Purch. Agent: Parke Chase
WN, GS, GH, GE, TS, TR

ELECTRO-MECHANICAL RESEARCH, INC.
Box 3041, Sarasota, Fla. (Tel. RIngling 6-1148)
Purch. Agent: John Moore
V. P.-Sales: T. E. Stewart TR, R&D

ELECTRO-MECHANICAL SPECIALTIES CO., INC.
743 W. 39th St., Banning, Calif. (Tel. VIctor 9-4795)
Purch. Agent: R. L. Kritser
Gen. Mgr.: James Goodman GE

ELECTRO-MEDICAL LAB., INC.
South Woodstock 25, Vt. (Tel. WOodstock 144M4)
Pres.: Lovett Garceau
Treas.: D. S. Garceau GE, TS, TR

ELECTRO-MINIATURES CORP.
1060 Elm Ave., Ridgefield, N. J. (Tel WHitney 3-7300)
Purch. Agent: Louis A. Lopez
Sales Engr.: L. Sonders GE, TR

ELECTRON PRODUCTS CO.
430 N. Halstead, Pasadena, Calif. (Tel. RYan 1-0666)
Purch. Agent: F. S. Pirrie
Sales Mgr.: R. F. Hastings MF, PS, GS, GE

ELECTRONIC APPLICATIONS, INC.
194 Richmond Hill Ave., Stamford, Conn. (Tel. DAvis 5-1574)
Purch. Agent: Vincent J. Skee
Dir.-Sales: Truus M. Skee TS, R&D

ELECTRONIC ASSEMBLY CO., INC.
5 Prescott St., Roxbury 19, Mass. (Tel. HIghlands 2-1600)
Purch. Agent: Saul Buchbinder
Asst. Purch. Agent: Joyce J. Harby
Sales Engr.: Jacob B. Giller GE, TR

ELECTRONIC ASSOCIATES, INC.
Long Beach, N. J. (Tel. CApital 9-1100)
Purch. Agent: E. F. Van Pelt
Sr. Buyers: L. W. Cavalier, J. H. Schachter & J. W. Thompson
Buyers: R. A. Grammer and E. Valente
GE, CO, TS, TR

ELECTRONIC BRAZING CO.
140 Glenridge Ave., Montclair, N. J. (Tel. PIlgrim 4-2160)
Dir.-Purch.: Walter J. Lambert TS

ELECTRONIC COILS, INC.
33 Lyman St., Springfield, Mass. (Tel. REpublic 6-6339)
Purch. Agent: Miss F. Jaworek
Chief Engr.: E. Bassett
Sales Mgr.: G. Lindstrom

ELECTRONIC COMMUNICATIONS, INC.
1501 72nd St., N., St. Petersburg, Fla. (Tel. DIckens 5-9301)
Purch. Mgr.: R. B. Walworth
V. P.-Mktg.: E. F. Coy GS, GE, CO, TS, TR, R&D

ELECTRONIC CONTROL CORP.
1573 E. Forest Ave., Detroit 7, Mich. (Tel. TEmple 2-6625)
V. P.-Sales: Stephen V. Hart
Dir.-Purch.: S. C. Lawrence GS

ELECTRONIC ENGRG. CO. OF CALIFORNIA
1601 E. Chestnut Ave., Santa Ana, Calif. (Tel. KImberly 7-5501)
Purch. Agent: A. R. Harman
Buyers: Gene Frake & Steve Gandolfo
Sales, R&D: M. H. Sander
Sales Mgr.: W. R. McQuiston TR, R&D

ELECTRONIC FABRICATORS, INC.
682 Broadway, New York 12, N. Y. (Tel. SPring 7-4900)
Pres.: M. Samuels

ELECTRONIC INDUSTRIES
State Rd., Patterson, N. Y.

ELECTRONIC INSTRUMENT CO., INC. (EICO)
33-00 Northern Blvd., Long Island City 1, N. Y. (Tel. STillwell 6-8700)
V. P.: Philip A. Portnoy TS

ELECTRONIC MEASUREMENTS CO., INC.
Lewis St. & Maple Ave., Eatontown, N. J. (Tel. 3-0300)
Purch. Agent: B. DeBlasio
Buyer: Mrs. Doris Shultz
Expediter: Mrs. Edith Walsh
Sales Mgr.: Douglas Stevens GS, GE, TR

ELECTRONIC MEASUREMENTS CORP.
625 Broadway, New York 12, N. Y. (Tel. GRamercy 5-0610)
Purch. Agent: L. Stans
Sales Mgr.: M. Lieblich
PS, GS, GH, GE, CO, TS, TR

ELECTRONIC MECHANICS, INC.
101 Clifton Blvd., Clifton, N. J. (Tel. GRegory 3-4108)
Comptroller: N. E. Brown
Gen. Sales Mgr.: J. E. Nester MM

ELECTRONIC PARTS MFG. CO., INC.
508 25th St., Union City, N. J. (Tel. UNion 5-4028) MM, R&D

ELECTRONIC PROCESSES CORP. OF CALIFORNIA
436 Bryant, San Francisco 7, Calif. (Tel. EXbrook 7-3882)
Purch. Agent: Charles Meade PS, GE, CO, TS, TR

ELECTRONIC RESEARCH ASSOCIATES, INC.
67 Factory Pl., Cedar Grove, N. J. (Tel. CEnter 9-3000)
Purch. Agent: N. D. Burgess
Sales Mgr.: D. D. Grieg GE, TS, TR, MM, R&D

ELECTRONIC SPECIALTY CO.
5121 San Fernando Rd., Los Angeles 39, Calif. (Tel. CHapman 5-3771)
Purch. Agent: H. A. Venturino
Buyers: Doug Taylor, Joe Canfield, Harvey Karasov, Robert Dabe
Sales Mgr.: Ted M. Duay GS, GE, CO, TS, R&D

ELECTRONIC TRANSFORMER CO., INC.
70 Washington St., Brooklyn 1, N. Y. (Tel. MAin 5-6123)
Purch. Mgr.: Irv Fields
Sales Mgr.: Hal Borgen GS, GE, TR, R&D

ELECTRONIC TUBE CORP.
1200 E. Mermaid Lane, Philadelphia 18, Pa. (Tel. CHestnut Hill 7-6800)
Pres.: Kenneth C. Meinken GS, GE, TS, TR, R&D

ELECTRONICS OF CLEARFIELD, INC.
P. O. Box 792, Clearfield, Pa. (Tel. POplar 5-3801)
Purch. Agent: Katherine Patterson
Exec. V. P.: James C. Boyd TS

ELECTRONICS CORP. OF AMERICA
One Memorial Dr., Cambridge, Mass. (Tel. UN 4-8000)
Mgr., Military Contracts-Military Div.: B. Howard Dean MF, WN, PS, GS, GE, CO, TS, TR

ELECTRONICS DEPT., HAMILTON STANDARD DIV., UNITED AIRCRAFT CORP.
Broad Brook, Conn. (Tel. NAtional 3-1621)
Purch. Agent: K. Williams
Sales Mgr.: Boone T. Guyton
MF, WN, PS, GS, GH, GE, CO, TS, TR

ELECTRONICS DEVELOPMENT CO., INC.
3743 Cahuenga Blvd., N. Hollywood, Calif. (Tel. STanley 7-3223)
Gen. Mgr.: D. W. Boisch
Sales: F. P. Leaming TR

ELECTRONICS DIV., VAN NORMAN INDUSTRIES INC.
186 Granite St., Manchester, N. H. (Tel. NAtional 5-9701)
Dir.-Purch.: S. Capewell
Buyer: T. Galant
Tech. Sales Mgr.: Paul Barr R&D

ELECTRONICS INTERNATIONAL CO.
145 W. Magnolia Blvd., Burbank, Calif. (Tel. Victoria 9-2481)
Purch. Agent: Philip Solomon
Sales Mgr.: John R. Foster PS, GE, TS

ELECTRON-RADAR PRODUCTS
4806 W. Chicago Ave., Chicago 51, Ill. (Tel. ESterbrook 9-1232)
Laboratory: Rt. 30, P. O. Box 50, North Aurora, Ill.
Purch. Agent: W. A. Bailey
Proprietor: J. J. Bailey GE, R&D

ELECTRONS, INC.
127 Sussex Ave., Newark, N. J. (Tel. HUmboldt 2-5977)
V. P.-Sales: J. H. Burnett TR

ELECTRO-SEAL CORP.
946 North Ave., DesPlaines, Ill. (Tel. VA 4-6173)
Dir.-Purch.: E. J. Bach GS, GH, CO

***ELECTROSNAP CORP., ASTROMATIC DIV., SWITCH DIV., OPTICAL & SCIENTIFIC DIV.**
4218 W. Lake St., Chicago 24, Ill. (Tel. VAn Buren 6-3100)
Purch. Agent: E. W. Hall
V. P.-Sales: G. M. Ballee GS, CO, TS
*(See Pages 67 & 68 for Advertisement)

ELECTRO-SWITCH & CONTROLS, INC.
5755 Camille Ave., Culver City, Calif. (Tel. TExas 0-4643)
Gen. & Sales Mgr.: J. K. Brose
Buyer: R. E. Preston GS, GE, TR

ELECTRO-TECH EQUIPMENT CO.
308 Canal St., New York 13, N. Y. (Tel. WO 6-2350)
Purch. Agent: Martin J. Jackins
Expediting & Delivery: Miss Barbara Holler
Gen. Mgr.-Sales: Arthur Prince
GS, GE, CO, TS, TR

ELECTRO-WINDERS CO. INC.
854 W. Front St., Covina, Calif. (Tel. EDgewood 2-6207)
Plt. Mgr.-Purch. Agent: George Payne
Asst. Purch. Agent: Agnes Munson
Sales Mgr.: Jack Ratner

ELGEET OPTICAL CO., INC.
838 Smith St., Rochester 6, N. Y. (Tel. BEverly 5-8080)
Purch. Agent: S. J. Rayburn
V. P.-Materials: M. A. London
V. P.-Equip.: Peter Terbuska TR

ELGENCO, INC.
P. O. Box 90344, Airport Sta., Los Angeles 45, Calif. (Tel. FRontier 5-4685)
Chief Engr.: Henry Low CO, TS, R&D

ELGIN MICRONICS DIV.-ELGIN NATIONAL WATCH CO.
366 Bluff City Blvd., Elgin, Ill. (Tel. SHerwood 2-5700)
Purch. Mgr.: E. F. Antonson WN, TS, R&D

ELGIN MICRONICS, WEST COAST DIV.-ELGIN NATIONAL WATCH CO.
21001 Nordhoff St., Chatsworth, Calif. (Tel. DIamond 0-7220)
Purch. Agent: Harold E. Haun
Customer Rel. Mgr.: James W. Browder
MF, WN, PS, GS, GH, GE, CO, TS, TR

ELGIN NATIONAL WATCH CO.
107 National St., Elgin, Ill. (Tel. SHerwood 2-3300)
Dir.-Purch., Watch Div.: W. H. Miller
Gen. Sales Mgr., Watch Div.: Harold Rich
WN, PS, GS, GH, GE, CO, TR

ELJAY CORP.
2908 Herbert St., Baltimore 16, Md. (Tel. WIlkens 5-2902)
Purch. Mgr.: Stanley A. Sladek
MF, WN, PS, GE, TS, TR

B. W. ELLIOTT MFG. CO., INC.
221 Prospect Ave., Binghamton, N. Y. (Tel. 4-2512)
Purch.: E. M. Twining PS

ELLIS & WATTS PRODUCTS, INC.
8407 Monroe Ave., Cincinnati 36, Ohio (Tel. TWeed 1-8000)
Admin. Supvr.: Robert J. Lammert

CODING
Missile Frame MF
Warhead & Nose Cone WN
Propulsion System PS
Ground Support GS
Ground Handling GH
Guidance Equipment GE
Checkout Equipment CO
Test Equipment TS
Tracking & Telemetering TR
Research & Development R&D
Materials & Metals MM

Purch. Agent: James Macke
V. P.-Sales: William D. Ross GS, R&D

ELMET DIV.-NORTH AMERICAN PHILIPS CO., INC.
Lisbon Rd., Lewiston, Me. (Tel. 4-5478)
V. P.-Purch., Elmet Div.: R. Lowit
Sales, Elmet Div.: D. R. Donovan MM

EL RAY MOTOR CO., INC.
11747 Vose St., North Hollywood, Calif. (Tel. STanley 7-3351)
Purch.: Joseph Ferrante
V. P.-Sales: Lee Valianos

ELSIN ELECTRONICS CORP.
Eileen Way, Syosset, L. I., N. Y. (Tel. WA 1-5200)
Purch. Agent: Robert Reinstein
Gen. Sales Mgr.: Maurice L. Goodman
GE, CO, TS, TR

ELWELL-PARKER ELECTRIC CO., THE
4205 St. Clair Ave., Cleveland 3, Ohio (Tel. UT 1-6200)
Purch. Agent: P. F. Mitchell
Sales Mgr.: J. A. Ackermann GH

ELZEE METAL PRODUCTS CO., INC.
775 39th St., Brooklyn 32, N. Y. (Tel. GEdney 5-5000)
Gen. Mgr.: Milton M. Lynn
Dir.-Sales: Mel Leipzig MM

EMELOID CO. INC., THE
1239 Central Ave., Hillside 5, N. J. (Tel. ELizabeth 2-1944)
Purch. Agent: Mrs. Florence Headley
Sales Mgr.: George W. Emerson MF, GE, CO, TR

EMERSON & CUMING, INC.
869 Washington St., Canton, Mass. (Tel. CAnton 6-1066)
Purch. Agent: C. B. McSorley
Sales: E. W. Anderson MM, R&D

EMERSON ELECTRIC MFG. CO., THE, ELECTRONICS & AVIONICS DIV.
8100 Florissant Ave., St. Louis 21, Mo. (Tel. COlfax 1-800)
Dir.-Purch.: John A. Alles, 59th & Industrial Aves., Washington Park, Ill. (Tel. Bridge 1-6060, Sta. 850)
Purch. Agent: M. Randall, Washington Park (Tel. Bridge 1-6060, Sta. 852)
Mgr., Sales Dept.-E & A Div.: C. F. Pizac
MF, WN, GS, GH, GE, CO, TS, TR, MM, R&D

EMERSON PLASTICS CORP.
1383 Seabury Ave., Bronx 61, N. Y. (Tel. SYcamore 2-4400)
Purch. Agent: D. Singer
Asst. Purch. Agent: I. Boxer
Dir.-Sales: W. Elsfelder WN, GE

EMERSON RADIO & PHONOGRAPH CORP.
14th & Coles Sts., Jersey City 2, N. J. (Tel. SWarthmore 5-3500)
Dir.-Purch.: William Hayward, Silver Spring, Md. Office (Tel. JUniper 8-7273)
Purch., Emerson Research Labs.: T. Pritchard
V. P.-Mktg.: George Rappaport
WN, GS, GH, GE, CO, TS, TR, R&D

EMHART MFG. CO., MAXIM DIV.
85 Homestead Ave., Hartford, Conn. (Tel. JA 7-9285)
Prod. Mgr.: S. E. Phelps
Purch. Agent: F. N. Dull
Dir.-Sales: T. S. Willets GS

EMHART MFG. CO., SKYWORKER DIV.
760 Windsor St., Hartford 1, Conn. (Tel. CHapel 9-0671)
Gen. Sales Mgr.: Stephen B. Doss GS

EMMCO PLASTIC FABRICATORS-DIV.-E. M. McCARTHY MACHINE CO.
68 Vine St., Everett, Mass. (Tel. DUnkirk 9-1660)
Purch. Agent: John Oljey
Gen. Mgr.: Roger M. Allen
Dir.-Sales: Donald West (Warwick, Conn., Tel. REgent 7-5721) MM

EMMERT MFG. CO.
1051 E. Main St., Waynesboro, Pa. (Tel. 848)
Pres.: A. B. Sollenberger GS

EMPIRE ELECTRONICS CO., INC.
166 River St., Paterson 1, N. J. (Tel. ARmory 4-8282)
V. P.: George Surasky PS, GS, GH, GE, TS, TR

EMPIRE PRODUCTS SALES CORP.
37 Prospect St., Amsterdam, N. Y. (Tel. VIctor 2-8400)
Purch. Agent: Allen Cohen
Buyer: Arthur E. Luba
V. P.-Sales: Michael T. Harges
GE, CO, TS, TR, R&D

EMPIRE STATE ALUMINUM CORP.
15 Boston St., Newark 3, N. J. (Tel. MArket 2-3150)
Secy.: Edward Fielding MF, PS, GH

ENDEVCO CORP.
161 E. California Blvd., Pasadena, Calif. (Tel. RYan 1-5231)
Purch. Agent: Alex Zielinski
Prod. Mgr.: John Daly
Sales Mgr.: Warren D. Hancock TS, R&D

ENDICOTT FORGING & MFG. CO., INC.
1901 North St., Endicott, N. Y. (Tel. 5-3331)
Gen. Sales Mgr.: A. L. Coleman MF, PS

ENFAB INC.
312 E. Brokaw Rd., San Jose, Calif. (Tel. CY 5-1801)
V. P.-Purch.: Mac C. Cutler
Plant Mgr.: R. B. Taylor
Dir.-Sales: L. W. Taylor MM, R&D

ENGLEHARD INDUSTRIES, INC.
133 Astor St., Newark, N. J. (Tel. BIgelow 3-0030)
Purch. Agent: W. Marks
Sr. V. P. & Sales Mgr.: D. L. Alexander MM

ENGELHARD INDUSTRIES INC., D. E. MAKEPEACE DIV.
Pine & Dunham Sts., Attleboro, Mass. (Tel. 2-0089)
Purch. Agent-Main Div. & Slip Ring Assn. Div.: George Aucoin
V. P.-Sales: W. F. Mittendorf
MF, WN, PS, GE, TS, TR

ENGINEERED MAGNETICS, DIV.-GULTON INDUSTRIES, INC.
13030 Cerise Ave., Hawthorne, Calif. (Tel. ORegon 8-7608)
Purch. Agent: Don Wills
Buyers: Art Corralos & Paul Foresman
GE, CO, TR, R&D

ENGINEERED PLASTICS, INC.
Chase St., Gibsonville, N. C. (Tel. 2411)
Purch. Agent: C. V. Long, Jr.
Sales Mgr.: C. H. Phillips MF, PS, GE, TR

ENGINEERED PRECISION CASTING CO.
Box 68, Hwy. 29, Matawan, N. J. (Tel. LOwell 6-2204) GE, TR

ENGINEERED PRODUCTS CO., THE
129 N. Grand Traverse St., P. O. Box 118, Flint, Mich. (Tel. CEdar 9-8689)
Purch. Agent: S. G. Both
Sales Mgr.: H. Scott PS, R&D

ENGINEERING ASSOCIATES
434 Patterson Rd., Dayton 19, Ohio (Tel. AXminster 3-1662)
Pres.: Charles C. Littell, Jr. TS

ENGRG. CORP. OF AMERICA
5111 Santa Monica Blvd., Hollywood 29, Calif. (Tel. NOrmandy 4-1961)
Purch. Agent & Head-Sales: Vernon W. Haas

ENGRG. DEVELOPMENTS, INC.
P. O. Box 149, Newport, R. I. (Tel. VIking 6-9100)
Pres.: J. H. Miller
V. P.: L. F. Gill

***ENGIS EQUIPMENT CO.**
431 S. Dearborn St., Chicago 5, Ill. (Tel. HArrison 7-3223)
Treas.: Mrs. C. L. Morton
V. P.: E. J. Schneider GS, GE
*(See Page 4 for Advertisement)

ENSCO, INC.
3100 Eldredge St., Salt Lake, Utah (Tel. HUnter 5-9162)
Gen. Mgr.: Frank W. Longson TS

ENSIGN-BICKFORD CO., THE
P. O. Box 308, Simsbury, Conn. (Tel OLdfield 8-4411)
Dir.-Mktg.: William S. Sherman MF, R&D

ENTERPRISE TOOL & GEAR CORP.
8320 E. McNichols Rd., Detroit 36, Mich. (Tel. TW 1-5780)
Purch. Agent: Bruce F. Rogers
Sales Mgr.: George R. Alschbach GS

ENTRON, INC.
P. O. Box 287, Bladensburg, Md. (Tel. APpleton 7-9585)
Purch. Agent: Carl D. Jones
V. P.-Sales: Robert J. McGeehan

ENVIRONMENTAL EQUIPMENT CO.
369 Linden St., Brooklyn 27, N. Y. (Tel. HEgeman 3-9872)
Purch. Agent: V. Batalin
Chief Engr.-Purch.: A. Hershey
Head-Sales: L. W. McDaniel GS, TS

EPIC, INC.
154 Nassau St., New York 38, N. Y. (Tel. DIgby 9-2470)
Head-Purch. Dept.: D. Nicolitch
Head-Sales: Peter Letica GS, GE, TS, TR

EPPLEY LABORATORY, INC., THE
12 Sheffield Ave., Newport, R. I. (Tel. VIking 7-1020)
Mgr.-Purch. & Sales: Roy Anderson GE, TR

EPOXY PRODUCTS, INC., DIV.-JOSEPH WALDMAN & SONS
133 Coit St., Irvington, N. J. (Tel. ESsex 5-6000)
Purch. Agent: Edward Sagerman MF, WN, PS, GE

EPSCO INC.
588 Commonwealth Ave., Boston 15, Mass. (Tel. COpley 7-8100)
Purch. Dir.: George R. Herring
Buyer: Robert R. Doucette
Expediter: Richard A. Nichols GS, GE, CO, TS, TR

ERA ELECTRIC CORP.
67 E. Centre St., Nutley, N. J. (Tel. NUtley 2-5811)

ERA ENGRG. INC.
1009 Montana Ave., Santa Monica, Calif. (Tel. EX 5-9995)
Pres.: H. Hutchinson
Dir.-Sales & Contracts: M. Cramer
WN, CO, TS, R&D

ERDCO ENGRG. CORP.
Addison, Ill. (Tel. KIngswood 3-6733)
Purch. Agent: William E. Huntsha
Sales Mgr.: Milton H. Goemann PS

ERICSON MFG. CO., THE
1660 Hayden Ave., Cleveland 12, Ohio (Tel. GLenville 1-2030)
V. P.-Purch.: J. E. Ericson
Asst. Purch. Agent: M. L. Parker
Dir.-Sales: E. O. Ericson

ERIE INSTRUMATION, DIV.-ERIE RESISTOR CORP.
12932 S. Weber Way, Hawthorne, Calif. (Tel. ORegon 8-5418)
Mgr.-Purch.: Joseph Simmons
Gen. Mgr.: George H. Osborn CO, TS, TR

ERIE RESISTOR CORP.
640 W. 12th St., Erie, Pa. (Tel. 2-1481 – after July 1, GLendale 6-8592)
Dir.-Purch.: George T. Griswold
Buyer-Electro-Mechanical Div.: M. Mikoda
Mgr.-Govt. Contracts & Spec.: J. C. Van Arsdell
GE, CO, TS, TR

ERIEZ MFG. CO.
1945 Grove Dr., Erie, Pa. (Tel. 4-0133)
Purch. Agent: G. A. Amidon
Asst. to Pres.: D. E. Dunne MM

ERWIN-NEWMAN CO., THE
P. O. Box 1308, Houston 1, Tex. (Tel. JAckson 4-8186)
Partners: R. J. Newman, C. P. Erwin
Chief Engr.: J. F. Irvine GS

ESCAMBIA CHEMICAL CORP.
261 Madison Ave., New York 16, N. Y. (Tel. OX 7-4315)
Purch. Agent: G. F. Jones, P. O. Box 467, Pensacola, Fla. (Tel. Milton, Fla.—2293)
Pres.: R. U. Haslanger PS

ESSEX MFG. CO., INC.
8213 Gravois, St. Louis 23, Mo. (Tel. VErnon 2-4500)
Purch. Agent & Dir.-Sales: Harold Guller
PS, GS, GH, R&D

ESSEX WIRE CORP.
1601 Wall St., Fort Wayne, Ind. (Tel. E-0311)
Purch.: G. Brown
V. P.-Sales: J. W. Stewart MF, PS, GS, TR

ESSEX WIRE CORP., MAGNET WIRE DIV.
1601 Wall St., Ft. Wayne, Ind. (Tel. EAstbrook 0311)
Dir.-Purch.: G. Kohlmeier
V. P.-Sales: J. W. Stewart MF, TR

ESSO STANDARD OIL CO.
15 W. 51st St., New York 19, N. Y. (Tel. PL 7-1200)
Mgr.-Purch.: A. J. Kelly
Gen. Mgr.-Mktg.: R. O. Goodykoontz MM

ESTERLINE-ANGUS CO., INC., THE
P. O. Box 596, Indianapolis, Ind. (Tel. CHapel 4-3318)
Purch. Agent: J. T. Casebourne
Sales Operation Mgr.: James Gall
Sales Promotion: Lewis Meier, Jr.

ETCHED PRODUCTS CORP.
39-01 Queens Blvd., Long Island City 4, N. Y. (Tel. STilwell 4-5900)
Purch. Agent: Michael Lome

V. P.-Purch.: Leonard D. Kiechel
MF, PS, GE, CO, TS, TR, MM

***ETS-HOKIN & GALVIN**
551 Mission St., San Francisco, Calif. (Tel. EXbrook 2-0432); 218 N. Avalon Blvd., Wilmington, Calif. (Tel. TErminal 5-5601); 2295 E. Belt St., San Diego, Calif. (Tel. BElmont 4-6301)
Chief Purch. Agent: Fred Oakey
V. P.-Sales: Jerry Ets-Hokin GS, TS, TR, R&D
*(See Page 54 for Advertisement)

EVERLUBE CORP.
6940 Farmdale Ave., North Hollywood, Calif. (Tel. ST 7-7101)
Sales Dir.: Roy Smith MF, PS, GS, GH

EWALD INSTRUMENTS
Rt. 7-G, Kent, Conn. (Tel. WAlker 7-3278)
Gen. Mgr.: L. H. Ewald TS

EXACT ENGRG. & MFG. INC.
2375 Canyon Dr., P. O. Box 668, Oceanside, Calif. (Tel. SAratoga 2-2144)
Purch. Agent: Frank Pendleton
Dir.-Sales: George A. Brusch MF, GS, GE, TR

EX-CELL-O CORP.
1200 Oakman Blvd., Detroit 32, Mich. (Tel. TOwnsend 8-3900)
Dir.-Purch.: F. D. Sicklesteel
Purch. Agent: F. Grimm
V. P.-Indsl. Sales: D. H. McIver MF, PS, GS, GE

EXCELSIOR LEATHER WASHER MFG. CO. INC.
720-730 Chestnut St., Rockford, Ill. (Tel. WOodland 8-2203)
Pres.: C. E. Duclon
Treas.: W. E. Duclon MF, PS

EXECUTONE, INC.
415 Lexington Ave., New York 17, N. Y. (Tel. MUrray Hill 7-7440)
Purch. Agent: Bernard Loew, 47-37 Austell Place, Long Island City 1, N. Y. (Tel. RAvenswood 9-7031)
Natl. Sales Mgr.: Ed Brody GS, GE, TR

EXIDE INDUSTRIAL DIV.-THE ELECTRIC STORAGE BATTERY CO.
Rising Sun & Adams Ave., Philadelphia 20, Pa. (Tel. FIdelity 2-8000)
Purch. Agent: H. S. Stevenson
Sales: C. J. Moore GS, GH, GE, TS

EYELET TOOL CO. INC.
236a Broadway, Cambridge 39, Mass. (Tel. UN 4-8170) MF, GS, TS

FWD CORP.
Clintonville, Wisc. (Tel. 2241)
Dir.-Purch.: Lloyd Pinkowsky
Asst. Dir.-Purch.: Leroy Hughes
Buyers: C. Pederson, M. N. Nordwig, N. Hansen, A. Hill, C. Chandler & C. Weck GS, GH

FXR, INC.
2612 Borough Pl., Woodside 77, N. Y. (AS 8-2800)
Purch. Agent: Lou Eskanazy
Prod.-Co-ordinator: John H. Wendt
V. P.-Sales: William D. Marshall TS, R&D

FABER PENCIL CO., EBERHARD
Crestwood—Wilkes-Barre, Pa. (Tel. GRanite 4-6711)
Dir.-Purch.: A. H. Dietze
Sales Mgr.: C. P. Mailloux

FABRI-FORM CO., THE
258 W. Main Ave., Byesville, O. (Tel. 5416)
Purch. Agent: E. E. Wray
V. P.-Sales Mgr.: R. L. Baker

FAE INSTRUMENT CORP.
42-61 Hunter St., L. I., N. Y. (Tel. STillwell 6-4959)
Purch. Agent: Joseph Voros GE, TR, R&D

FAFNIR BEARING CO., THE
37 Booth St., New Britain, Conn. (Tel. BAldwin 5-5151)
Purch. Agent: H. P. Knowles
V. P.-Sales: R. W. Powell
PS, GS, GH, GE, CO, TS, TR, R&D

FAIRBANKS CO., THE
393 Lafayette St., New York 3, N. Y. (Tel. SPring 7-8800)
V. P.-Sales: E. T. Flanagan GS

FAIRBANKS MORSE
600 S. Michigan Ave., Chicago 5, Ill.

FAIRCHILD ASTRIONICS DIV., FAIRCHILD ENGINE & AIRPLANE CORP.
Straight Path Rd., Wyandanch, L. I., N. Y. (Tel. MIdland 3-7171)
Materials Mgr.: B. B. Kimball GS, GE, R&D

FAIRCHILD CAMERA & INSTRUMENT CORP., INDUSTRIAL CAMERA DIV.
5 Aerial Way, Syosset, N. Y. (Tel. WElls 1-4500)
Purch. Agent: Wm. Crocker
Mktg. Mgr.: C. Cherry CO, TS, TR

FAIRCHILD CONTROLS CORP., COMPONENTS DIV.
255 Park Ave., Hicksville, L. I., N. Y. (Tel. Wells 8-5600)
Purch. Agent: Robert Crockett
Natl. Contracts Admin.: T. F. D'Andrade
WN, GS, GE, CO, TS, TR

FAIRCHILD DATA DEVICES CORP.
580 Midland Ave., Yonkers, N. Y. (Tel. GReenleaf 6-0201)
Prod. Mgr.: Kenneth LiDonnici
Sales Mgr.: Charles E. Cherry, Jr. TR

FAIRFIELD ENGINEERING CORP.
934 Hope St., Springdale, Conn. (Tel. DAvis 5-1561)
Purch. Agent: Katherine Kiniry
Dir.-Sales: Arthur Gutterman R&D

FALSTROM CO.
75 Falstrom Ct., Passaic, N. J. (Tel. PRescott 7-0013)
Purch. Agent: P. W. Kievit
Asst. Purch. Agent: R. L. Chapman
Sales & Adv. Mgr.: R. E. Hill MF, GS, GH, R&D

FANSTEEL METALLURGICAL CORP.
North Chicago, Ill. (Tel. DExter 6-4900)
Dir.-Purch.: J. A. Teece
Purch. Agent: G. E. Powell
Buyers: L. W. Carter, W. Laser & E. A. Weidman
Asst. Purch. Agent: G. Conner
MF, WN, PS, GS, GH, GE, CO, TS, TR

FARLEY & LOETSCHER MFG. CO., PLASTICS DIV.
7th & White St., Dubuque, Iowa (Tel. 2-5451)
Purch. Agent: L. J. Streinz
Div. Mgr.-Purch.: F. R. Loetscher
Asst. Div. Mgr.-Purch.: C. E. Walz MM

FARMER ELECTRIC PRODUCTS CO., INC
2300 Wash. St., Newton Lower Falls, Mass. (Tel. DEcatur 2-8383)
Purch. Agent: T. L. Parker
Pres.-Sales: E. B. Farmer TS

FARMINGDALE MFG. CORP.
40 Potter St., Farmingdale, L. I., N. Y. (Tel. CHapel 9-7200)
Exec. V. P.: R. W. Craig
Buyer: F. S. Davis PS, GS, TS

FARREL BIRMINGHAM CO., INC.
25 Main St., Ansonia, Conn. (Tel. REgent 4-3331)
Purch. Agent: H. F. Williams
Sales Mgr.: P. H. Dreissigacker
Mgr.-Spec. Prod.: R. J. Swett, Jr. GH

FARWELL METAL FABRICATING
75 W. Fairfield Ave., St. Paul 7, Minn. (Tel. CApitol 4-5318)
Purch. Agent: Arnold Portugal
Asst. Purch. Agent: Mike Daddario
Sales Mgr.: W. J. Marzolf MF, WN, GH, MM

FASTENERS, INC.
198 Columbus Ave., Pittsfield, Mass. (Tel. HIllcrest 3-9105)
Purch. Agent: Robert G. Schneider
Pres.-Sales: C. M. Cambern
V. P. & Dir.-Sales: Ben Sprague
V. P.-Sales: Louis A. Cummaro
MF, WN, PS, GS, GH, GE, R&D

FAULTLESS CASTER CORP.
1427 N. Garvin St., Evansville 7, Ind. (Tel. HArrison 5-9041)
V. P.-Purch.: Elmer H. Noelting
Purch. Agent, Parts: Roy C. Lockyear
Purch. Agent, Raw Materials: George L. Wood
Gen. Sales Mgr.: C. Bernard Noelting GS

J. W. FECKER, INC.
6592 Hamilton Ave., Pittsburgh 6, Pa. (Tel. EMerson 1-7617)
Purch. Agent: Bert DeMarco
Pres.-Sales: Joseph Kalla GS, GH, CO, TS, TR

FEDERAL BEARINGS CO. INC., THE
Fairview Ave., Poughkeepsie, N. Y. (Tel. GL 2-6000)
Dir.-Purch.: E. Wallin
Dir.-Sales: E. Sweeney GS, GH

FEDERAL MACHINE CO. INC.
841 Garfield Ave., Jersey City, N. J. (Tel. HEnderson 5-1500)
Purch. Agent: H. Shapiro
Pres.: Harold H. Butler MM

FEDERAL MACHINE TOOL CO.
626 Dorchester Ave., South Boston 27, Mass. (Tel. ANdrew 8-8380)
Purch. Agent: George W. Kenty
Sales Mgr.: Walter J. Murphy WN, PS, MM

FEDERAL MFG. & ENGRG. CORP.
1055 Stewart Ave., Garden City, N. Y. (Tel. Pioneer 2-7400)
Purch. Agent: Harry Levin
V. P.-Sales: Robert S. Schlanger
GS, GE, CO, TS, R&D

FEDERAL METAL HOSE CORP.
277 Military Rd., Buffalo 7, N. Y. (Tel. DE 4893)
Pres.: Harry C. Neff
Purch.: K. E. Lehr MF, PS, GS

FEDERAL PRODUCTS CORP.
1144 Eddy St., Providence 1, R. I. (Tel. STuart 1-9300)
Asst. Adv. Mgr.: G. H. Wilson

FEDERAL SCIENTIFIC CORP.
615 W. 131st St., N. Y., N. Y. (Tel. AU 6-4400)
Purch. Agent: Murray Wiener R&D

FEDERAL SCREW PRODUCTS INC.
3917 N. Kedzie Ave., Chicago 18, Ill. (Tel. IRving 8-5744)
Purch. Agent: Ted Eisman
Sales Mgr.: L. L. Harris MF, WN, PS, GS, GH, GE

FEDERAL SHOCK MOUNT CORP., DIV.-THE KORFUND CO., INC.
1060 Washington Ave., New York 56, N. Y. (Tel. WYandotte 3-0400)
Purch. Agent: J. Silverman
Sales Mgr.: J. I. Hammond
Sales Prom. Mgr.: S. L. Perlow GS, TR, MM, R&D

FEDERAL TELECOMMUNICATIONS LABS.
500 Washington Ave., Nutley, N. J.

FEDERAL TELEPHONE & RADIO CO.
100 Kingsland Rd., Clifton, N. J. (Tel. NUtley 2-3600)
Purch. Mgr.: H. P. Sommerer
V. P.-Sales: T. M. Douglas

FEDERAL TOOL ENGRG. CO.
1384 Pompton Ave., Cedar Grove, N. J. (Tel. CLifford 6-5300)
Purch. Agent: Mrs. E. Lindenfield
Sales Mgr.: Robert H. Pityo

FEEDBACK CONTROLS, INC.
899 Main St., Waltham 54, Mass. (Tel. TWinbrook 4-1020)
Purch. Agent: Stanley W. Block
Sales Mgr.: John J. Fernsler
GE, CO, TS, TR, R&D

FEILER ENGRG. & MFG. CO.
8026 N. Monticello Ave., Skokie, Ill. (Tel. COrnelia 7-8280)
Purch. Agent: G. Wolf
Sales Mgr.: Elwood Talan GE, TS

FELKER MFG. CO.
1128 Border Ave., Torrance, Calif. (Tel. Fairfax 8-4704)
Purch. Agent: George Mittl
Purch. Dept.: Helen Sutor
Sales Mgr.: Fred K. Ryan MM, R&D

FELTERS CO., THE
210 South St., Boston 11, Mass. (Tel. LIberty 2-7021)
V. P.-Purch.: J. G. Bowden, 22 W. St., Millbury, Mass. (Tel. UNion 5-4404)
V. P.-Sales: G. C. Howe
Asst. Sales Mgr.: G. J. Harrington MM

FENWAL ELECTRONICS, INC.
Mellen St., Framingham, Mass. (Tel. TRinity 3-7455)
Pres.-Purch.: R. S. Goodyear
Sales Mgr.: H. J. Andrews

FENWAL INC.
Pleasant St., Ashland, Mass. (Tel. TRinity 5-6111)
Purch. Agent: F. Stockwell
Buyers: J. Mahoney & R. Thorne
Gen. Sales Mgr.: S. Edgerly
MF, WN, PS, GS, GE, CO, TS, TR

FERRANTI ELECTRIC INC.
30 Rockefeller Plaza, New York 20, N. Y. (Tel. CIrcle 7-0911)
Purch. Agent: P. C. Pope
Dir.-Sales: D. G. Pacy GS, GE, TS, TR

FERRIS-MFG. CO., THE
45 Seymour St., Stratford, Conn. (Tel. DRexel 8-0120)
Purch. Agent: S. McDonough
Pres.-Sales: Stanley Dulski MF

CODING
Missile Frame MF
Warhead & Nose Cone WN
Propulsion System PS
Ground Support GS
Ground Handling GH
Guidance Equipment GE
Checkout Equipment CO
Test Equipment TS
Tracking & Telemetering TR
Research & Development R&D
Materials & Metals MM

FERROTHERM CO., THE
1861 E. 65th St., Cleveland 3, Ohio (Tel. EN 1-0745)
Asst. Secy.-Purch.: Clem Gross
Sales Mgr.: Max Korb

FERROTRAN ELECTRONICS CO., INC.
693 Broadway, New York 12, N. Y. (Tel. ALgonquin 4-5810)
Sales Mgr.: H. King
Gen. Mgr.: Edward A. Abbot — TR, R&D

FERROXCUBE CORP. OF AMERICA
129 E. Bridge St., Saugerties, N. Y. (Tel. CHerry 6-2811)
Purch. Agent: J. P. O'Reilly
Sales Adm.: W. J. Crosby — MF, PS, GS

FIDELITY AMPLIFIER CO.
1633 N. Halsted St., Chicago 14, Ill. (Tel MOhawk 4-3515)
Purch. Agent: W. Stanton Martin — GE

FIDELITY CHEMICAL PRODUCTS CORP.
470 Frelinghuysen Ave., Newark 12, N. J. (Tel. BI 2-4110)
Gen. Mgr.-Purch.: Maurice Bick
Head-Sales: S. B. Lonyai
MF, WN, PS, GS, GH, TR

FIDELITY INSTRUMENT CORP.
1000 E. Boundry Ave., York, Pa. (Tel. 7675)
Purch. Agent: George Dietz
Pres.-Sales: A. A. Wolf — GS, GE, TR

FILMOHM CORP.
48 W. 25th St., New York 10, N. Y. (Tel. WAtkins 4-3244)
Purch. Agent: Bob Latin
Buyer: M. Rosten
V. P.-Sales: J. N. Popper — TS, TR

***FILTORS, INC.**
30 Sagamore Hill Dr., Port Washington, N. Y. (Tel. 7-8220)
Purch. Agent: D. Bochicchio
V. P. Sales: C. G. Barker — GE, TR
*(See Page 6 for Advertisement)

FILTRON CO., INC.
131-15 Fowler Ave., Flushing 55, N. Y. (Tel. HIckory 5-7000)
Dir.-Purch.: Lou Kerestury
Gen. Sales Mgr.: Samuel I. Perry — TS

FINE ORGANICS, INC.
211 E. 19th St., New York 3, N. Y. (Tel. GRamercy 5-1030)
Purch. Agent: Miss Agnes Guidice
Asst. to the Pres.: Emanuel Rosenblat

FINN AERONAUTICAL DIV., T. R. FINN & CO., INC.
275 Goffle Rd., Hawthorne, N. J. (Tel. HA 7-7123)
Purch. Engr.: T. B. Malloy
Sales: William Grimm — PS

FINNELL SYSTEM, INC.
500 East St., Elkhart, Ind. (Tel. 2-0586)
V. P.-Purch.: W. S. Finnell, Jr.
V. P.-Sales: James E. Bates

FINNEY CO., THE
34 W. Interstate St., Bedford, Ohio (Tel. Bedford 2-6161)
Pres.-Purch.: L. H. Finneburgh
V. P.-Purch.: M. L. Finneburgh, Sr.
Sales Mgr.: M. L. Finney, Jr.
Gen. Sales Mgr.: M. L. Finney, Sr. — GE, TR, MM

FIRESTONE TIRE & RUBBER CO., THE, GUIDED MISSILE DIV.
2525 Firestone Blvd., Los Angeles 54, Calif. (Tel. LUdlow 3-4411)
Purch. Agent-Coast Div.: J. D. Esterly
Mgr., Purch. Dept.-Guided Missile Div.: N. H. Peterson
Buyers: Fred Jewett, W. F. Koehne, Leo L. Lawrence, M. I. Dales, R. B. Harper, T. W. Dunford, C. W. Smith, & C. A. Giboney
Sales Engr.: F. W. Thompson
MF, WN, PS, GS, GH, CO, TS, TR, R&D

FIREWEL CO., INC., THE
3685 Broadway, Buffalo 25, N. Y. (Tel. REgent 0440)
Purch. Agent: A. DiMicell
V. P.-Aviation Products: John C. Goodell — GS, R&D

FIRST ELECTRONICS CORP., THE
117 Blue Hill Ave., Boston 19, Mass. (Tel. HI 5-5900)
Purch. Agent: A. Miller
MF, PS, GS, GH, GE, CO, TS, TR

FIRTH STERLING INC.
3113 Forbes, Pittsburgh, Pa. (Tel. MUseum 2-4600)
Purch. Agent: Harry K. Stern, McKeesport, Pa. (Tel. HOmestead 1-4776)
Asst. Purch. Agent: George L. Miller, McKeesport, Pa.
V. P.-Sales: Thomas G. Barnes — MF, WN, PS, GS

FISCHER & PORTER CO.
6 Warminster Rd., Hatboro, Pa. (Tel. OSborne 5-6000)
Purch. Agent: Daniel Steelman
V. P.-Sales: Robert L. Rice
PS, GS, GH, GE, CO, TS, TR

FISHER & CROME
109 N. Camac St., Philadelphia, Pa. (Tel. LOcust 4-5054)
Buyer: John C. Bucher — GS, GH

FISHER GOVERNOR CO.
Box 307, Marshalltown, Iowa (Tel. 5561)
Purch. Agent: A. M. Chard
Sales Mgr.: Bruce Price — GH

FISHER RESEARCH LAB., INC.
1975 University Ave., Palo Alto, Calif. (Tel. DAvenport 2-4646)
Purch. Agent: James G. Rafferty
V. P.-Sales: Irwin Feichtmeier — TR, R&D

FISHER SCIENTIFIC CO.
711 Forbes Ave., Pittsburgh 19, Pa. (Tel. EXpress 1-1330)
Purch. Agent: E. A. Eyerman
Sales Mgr.: J. Cramer — TS, R&D

FISH-SCHURMAN CORP.
70 Portman Rd., New Rochelle, N. Y. (Tel. New Rochelle 6-1300)
Purch. Agent: N. Raptoulis
Pres.-Sales: Murray Yawitz

FLEETWOOD LABS., INC.
300 Victory Blvd., New Rochelle, N. Y. (Tel. BEverly 5-0831)
Sales Mgr.: W. A. Scism — CO, TS

FLETCHER MFG. CO., INC., THE
10th & Missouri Sts., Oklahoma City 17, Okla. (Tel. FOrest 5-9232)
V. P.-Purch. & Sales: C. F. Fletcher
Plant Supt.: Kenneth P. Kerr
MF, WN, PS, GS, GE, TS, TR

FLEXAUST CO., THE
100 Park Ave., New York, N. Y. (Tel. ORegon 9-1300)
Supt.-Purch.: T. Burbank, Chestnut St., Amesbury, Mass. (Tel. 1396)
Adv. Mgr.: T. G. May — PS, GS, GH

FLEXIBLE METAL HOSE MFG. CO.
777 W. 16th St., Costa Mesa, Calif. (Tel. LIberty 8-6252)
Pres.: Elton Hallett — MF, PS, GS, GH, GE

FLEXIBLE TUBING CORP.
New Whitfield St., Guilford, Conn. (Tel. GLendale 3-2777)
Purch. Agent: Robert F. Moran
Asst. Mgr.-Aircraft & Missile Sales: John D. Kohler
MF, GS, GE, CO

***FLEXONICS CORP., AERONAUTICAL DIV.**
1414 S. Third Ave., Maywood, Ill. (Tel. FIllmore 3-8000)
Purch. Agent: R. Ferguson
Gen. Mgr.-Aeronautical Div.: R. R. Muller
Systems Mgr.: William C. Gage
Mktg. Mgr.: Dale Ankeney — TS, MM, R&D
*(See Page 41 for Advertisement)

FLEXROCK CO.
3609 Filbert St., Philadelphia, Pa. (Tel. BAring 2-5500)
Mech. Engr.-Purch.: H. Schmidt
Sales Mgr.: H. Himbert — MF, PS, MM

FLIGHT REFUELING, INC.
P. O. Box 1701, Baltimore 3, Md. (Tel. SOuthfield 6-5000)
Treas.-Purch.: Albert Roeper
Buyers: Rudolph Borke, Lloyd Lilly, Jr. & John Kucher
Asst. to Pres.: Richard C. Dickinson — GS, TS, R&D

FLIGHT RESEARCH, INC.
P. O. Box 1-F, Richmond 1, Va. (Tel. REpublic 7-4163)
Purch. Agent: William J. Waymack, Jr.
Sales Mgr.: John C. Pennock — R&D

FLIGHT SCIENCES LAB.
1963 Sheridan Dr., Buffalo, N. Y. (Tel. VI 7166)
Purch. Agent: Mrs. Mary Bacon — R&D

FLOCK PROCESS CO. INC.
375 Main Ave., Norwalk, Conn. (Tel. VIctor 7-4586)
Head-Purch. Dept.: R. J. Leff
Head-Sales: H. A. Leff — MF, PS, GS, TS, TR

FLORI PIPE CO., THE
601 E. Red Bud Ave., St. Louis 15, Mo. (Tel. EVergreen 1-3800)
Purch. Agent: Dwight Ketring
Sales Mgr.: Robert D. Flori

FLOW CORP.
85 Mystic St., Arlington 74, Mass. (Tel. MIssion 8-3185)
Admin. Asst.-Purch.: R. J. McIlveen
Mgr.-Sales: H. P. Grant — TS

FLOW MEASUREMENTS CORP.
10506 Wheatley St., Kensington, Md. (Tel. LOckwood 4-0122)
Purch. Agent: Joseph H. West
Sales Mgr.: Don Pardue — TS

FLUID REGULATORS CORP.
313 Gillette St., Painesville, Ohio (Tel. ELmwood 2-3319)
Purch. Agent: Ray W. Honeywell
Sales Mgr.: Ralph W. Barnes
PS, GS, GH, GE, R&D

JOHN FLUKE MFG. CO., INC.
1111 W. Nickerson St., Seattle 99, Wash. (Tel. AT 2-5700)
Plant Mgr.: R. M. Nicholas
Sales Mgr.: Robert E. Florence
GS, GE, CO, TS, TR

FLUOROCARBON CO. INC., THE
1206 E. Ash Ave., Fullerton, Calif. (Tel. MA 6-9369)
Purch. Agent: Frank Willey
Sales Mgr.: Sandy Poteet — MM, R&D

FLUORULON LABS., INC.
Box 305, Caldwell, N. J. (Tel. CA 6-8228)
Pres.-Purch.: F. B. DuVall
Sales Mgr.: W. P. Hemmel — PS, MM

FLUSH WALL RADIO CO.
1012 Cleveland St., Clearwater, Fla. (Tel. 34-6061)
Pres.: L. R. Schenck

FONDA GAGE CO., INC.
Box 1050, 200 Henry St., Stamford, Conn. (Tel. DA 4-5787)
Office Mgr.: D. A. Romaniello
Gen. Mgr.-Purch.: H. Wunsell
Sales Mgr.: A. J. Erickson — TS, R&D

FOOD MACHINERY & CHEMICAL CORP., CHEMICAL DIVISIONS
161 E. 42nd St., New York 17, N. Y. (Tel. MUrray Hill 7-7400)
Purch. Dir.-Chemical Divs.: J. A. Mooney
WN, PS, GH, R&D

FOOD MACHINERY & CHEMICAL CORP., ORDNANCE DIV.
1105 Coleman Ave., San Jose, Calif. (Tel. CYpress 4-8124)
Procurement Mgr.: H. L. Hall
Purch. Agent: H. V. Rogers
Asst. Purch. Agent: F. P. Gorentz
Sales: H. R. Hammond — MF, PS, GS, GH, CO, TS

FOOTE BROS. GEAR & MACHINE CORP.
4545 So. Western Blvd., Chicago 9, Ill. (Tel. VIrginia 7-4200)
V. P.-Mrktg.: R. W. Johnson — MF, GS

FOOTE MINERAL CO.
18 W. Chelten Ave., Philadelphia 44, Pa. (Tel., VIctor 8-4000)
Dir.-Purch.: W. M. Raynor
Asst. Dir.-Purch.: W. J. Brooking
Purch. Agent: H. H. Apgar
Gen. Sales Mgr.: James Fentress

FORBES, GEORGE F., INDUSTRIAL MATHEMATICIAN
13745 Eldridge Ave., Sylmar (San Fernando), Calif. (Tel. EMpire 7-1219) — R&D

FORBES & WAGNER, INC.
345 Central Ave., Silver Creek, N. Y. (Tel. 650)
Purch. Agent: R. L. Hollowood
V. P.-Sales & Engrg.: John C. Pontius — GE, TR

M. A. FORD MFG. CO., INC.
1545 Rockingham St., Davenport, Iowa (Tel. 7-3251)
Secy.: Stanley Hill
Sales Mgr.: L. E. Schumann — MM

FORD INSTRUMENT CO., DIV.-SPERRY RAND CORP.
31-10 Thomson Ave., Long Island City 1, N. Y. (Tel. STillwell 4-9000)
V. P.-Sales: A. L. Coulson
Purch. Agent: S. J. Nastri
WN, GS, GE, CO, TS, TR, R&D

FORD RADIO & MICA CORP.
536 63rd St., Brooklyn 20, N. Y. (Tel. GEdney 9-8300)
Purch. Agent: Alan J. Long
Sales Mgr.: Delos Maynard — GS, TS, TR

FOREDOM ELECTRIC CO., INC.
Bethel, Conn. (Tel. Pioneer 8-3521)
Purch. Agent: Henry Holmes
Sales Mgr.: Douglas E. Kellogg MM

FOREST ELECTRIC CO., THE
7216 Circle Ave., Forest Park, Ill. (Tel. FP 6-4100)
Dir.-Purch.: Louis Picchietti
Dir.-Sales: Charles F. King

FORMED STEEL TUBE INSTITUTE
850-52 Hanna Bldg., Cleveland 15, Ohio (Tel. MAin 1-4012)
Exec. Secy.-Treas.: Jehu R. Derrickson
MF, WN, PS, TS, TR, MM, R&D

FORMICA CORP.
4614 Spring Grove Ave., Cincinnati 32, Ohio (Tel. KIrby 1-3670)
Purch. Agent: H. Heitbruik
Prod. Mgr.: F. H. Hamilton MM

FORM-IT PRODUCTS, INC.
1619 W. Walnut St., Chicago 12, Ill. (Tel. HAymarket 1-7337)
V. P.-Purch.: E. S. Jamison MM

FORMSPRAG CO.
23601 Hoover Rd., Warren, Mich. (Tel. JEfferson 6-9000)
Purch. Agent: E. D. Mackie
Buyer: R. F. Agnelly
V. P.-Sales: Charles F. Trapp, Jr.

FORSBERG MFG. CO., THE
125 Seaview Ave., Bridgeport 1, Conn. (Tel. EDison 4-9469)
Plant Mgr.: John W. Nystrom
Sales Mgr.: H. S. Forsberg

FORT HILL PLASTIC LETTERS CORP.
40 Hanover St., Boston 8, Mass. (Tel. RIchmond 2-2570)
V. P.: Oswald W. Gregson

FORT WAYNE METALS, INC.
3211 MacArthur Dr., Ft. Wayne 6, Ind. (Tel. SHerwood 3181)
V. P.-Purch.: Frank B. Didier
Pres.: Ardelle Glaze MM, R&D

FOSTER TRANSFORMER CO.
3820 Colerain Ave., Cincinnati, O. (Tel. MUlberry 1-2420)
Purch. Agent: A. L. Jonas
Sales Mgr.: S. D. Haffey MM

FOTO-VIDEO LABS., INC.
36 Commerce Rd., Cedar Grove, N. J. (Tel. CEnter 9-6100)
Purch. Agent: James Palmere
Sales Mgr.: John Mahler GS, GE, TR, R&D

FOUR WHEEL DRIVE AUTO CO., THE
12th & Auto Sts., Clintonville, Wisc.

FRAM CORP.
105 Pawtucket Ave., Providence 16, R. I. (Tel. GEneva 4-7000)
Dir.-Purch.: H. Keough
V. P.-Sales: H. R. Robinson
Mgr., Aviation Div.: John J. McKee
PS, GH, TS, MM, R&D

FRANKLIN FIBRE-LAMITEX CORP.
E. 18th St.-on P.R.R. Siding, Wilmington, Del. (Tel. OL 8-5269)
Purch.: A. R. Campbell
MF, WN, PS, GS, GE, TS, TR

FREBANK CO.
711 W. Broadway, Glendale 4, Calif. (Tel. CHapman 5-6558)
Purch. Agent: R. L. Harris
Sales Mgr.: J. G. Tillery GS, GE, R&D

FREED TRANSFORMER CO., INC.
1718 Weirfield St., Brooklyn 27, N. Y. (Tel. EVergreen 6-1300)
Purch. Agent: G. Lesser
Sales Mgr.: M. Salzberg GE, TR

FREEMAN CO., THE
8th & Walnut Sts., Yankton, S. Dak. (Tel. North 5-2829)
Purch.: E. W. Freeman
Dir.-Sales: S. H. Byquist
MF, WN, PS, GS, GH, GE, TR, MM

FRENCHTOWN PORCELAIN CO.
Harrison & 8th Sts., Frenchtown, N. J. (Tel. 480)
Prod. Development Engr.: C. L. Seversike
Mgr.-Mktg. & Engrg.: J. E. Comeforo MM

FRICK GALLAGHER MFG. CO., THE
200 S. Michigan Ave., Wellston, Ohio (Tel. WEllston 4-2121)
Purch. Agent: D. A. Dobbins

FROMSON ORBAN CO., INC.
261 Madison Ave., New York 16, N. Y. (Tel. MUrray Hill 7-0920) MM

FRUEHAUF TRAILER CO., MILITARY EQUIPMENT DIV.
10940 Harper Ave., Detroit 32, Mich. (Tel. WA 1-2410)
Dir.-Purch.: Bruce M. Kirsten
Purch. Agent: H. E. Vermillion
Purch.: Robert Liggett, Delphos, O. (Tel. 2-6015)
Dir.-Military Equip.: E. R. Neumann GS, GH, R&D

FUGLE-MILLER LABS. INC.
301 Central Ave., Clark, N. J. (Tel. FUlton 1-2727)
Purch. Agent: F. L. Fugle, Jr.
Sales Mgr.: Conrad Miller TR

FULLER CO.
124 Bridge St., Catasauqua, Pa. (Tel. COngress 4-2841)
Purch. Agent: J. A. Nork
Sales Mgr.: C. C. Kaesemeyer GH

FULTON-IRGON CORP., THE
P. O. Box 591, Dover, N. J. (Tel. FOxcroft 6-7474)
Purch. Agent: John O. Black
Sales Mgr.: David Fulton PS, GS, GH, MM

FURANE PLASTICS, INC.
4516 Brazil St., Los Angeles 39, Calif. (Tel. CHapman 5-5763)
Purch. Agent: B. Holbrook
Sales Mgr., Tooling: B. J. Bryan TS, MM, R&D

FURNAS ELECTRIC CO.
1000 McKee St., Batavia, Ill. (Tel. 3410)
Purch. Agent: C. R. Mead
V. P.-Sales & Engrg.: W. F. Lisman

FUSITE CORP.
6000 Fernview Ave., Cincinnati 13, O. (Tel. REdwood 1-2020)
Purch. Agent: J. Fox
V. P.-Sales: J. H. Marsh, Jr. MF, PS, GS, GE

FUTURECRAFT CORP.
1717 N. Chico Ave., El Monte, Calif. (Tel. CUmberland 3-2113)
Purch. Agent: Wesley Jones
Buyer: Claude Knight
Prod. Control: Ray Curtis
Supt.: Aage Hansen
Chief Test Engr.: Richard Fewell
Sales Mgr.: Robert Burke MF, PS, GS, GE

GAR MFG. CORP.
73 Park St., Beverly, Mass. (Tel. WA 2-1626)
Purch. Agent: Arthur D. Stone
Asst. Purch. Agent: Francis F. Perry
Dir.-Sales: Jerome B. Bates MM

GAR PRECISION PARTS, INC.
190 Henry St., Stamford, Conn. (Tel. FI 8-2671)
Purch. Agent: Albert O. Palmer GE

G-L ELECTRONICS CO., INC.
2921 Admiral Wilson Blvd., Camden 5, N. J. (Tel. WOodlawn 6-2780)
Purch. Agent: Boyd F. Beatty
Dir.-Sales: Stephen G. Lax PS, TR

G-M LABS. INC.
4300 N. Knox Ave., Chicago 34, Ill. (Tel. PEnsacola 6-1800)
Purch. Agent: Irving M. Temen
Sales Mgr., Components Div.: A. G. Bradt GE

GPS INSTRUMENT CO., INC.
180 Needham St., Newton 64, Mass. (Tel. DEcatur 2-8110)
Purch. Agent: Samuel Giser
Sales Mgr.: Strain Sutton GE, TR

G-V CONTROLS INC.
Okner Pkwy., Livingston, N. J. (Tel. WYman 2-6200)
Gen. Sales Mgr.: Robert F. Stockton, III
Buyer: Richard Maloney
Production Mgr.: Ray Weckstein GS, GH, GE, CO

GABRIEL CO., THE, GABRIEL ELECTRONICS DIV.
135 Crescent Rd., Needham Heights 94, Mass. (Tel. HIllcrest 4-0005)
Purch. Agent: Charles Nolan
Dir.-Sales: Steven Galagan
V. P.-Electronics: Stanton L. Yarbrough
GS, GE, TR

GABRIEL CO., THE, TALCO ENGRG. CO. DIV.
Falcon Field, Mesa, Ariz. (Tel. WO 4-1711)
Purch. Agent: Edward Loh
Dir.-Sales: A. E. Ehlenberger PS, GS, GH, GE

GAERTNER SCIENTIFIC CORP., THE
1262 Wrightwood Ave., Chicago 14, Ill. (Tel. BUckingham 1-5335)
Purch. Agent: L. V. Mosberger
Sales Mgr.: Lyman W. Higgins
CO, TS

GAHAGAN INC.
Waterman Ave., Esmond 17, R. I. (Tel. CEnterdale 1-4000)
Purch. Agent: E. Johnson
Sales: E. S. Holland

GALLAND-HENNING NOPAK DIV.
2753 S. 31st St., Milwaukee 46, Wisc. (Tel. MItchell 5-6000)
Sales Mgr.: R. W. Peterman
Dir.-Purch.: R. J. White

G. W. GALLOWAY CO.
220 S. 1st Ave., Arcadia, Calif. (Tel. RYan 1-4961)
Purch. Agent: M. J. Carlow
V. P.-Sales: M. E. Tait

GAMEWELL CO., THE
1238 Chestnut St., Newton Upper Falls, Mass. (Tel. BIgelow 4-1240)
Purch. Agent: E. O'Halloran
Sales Mgr., Potentiometer Div.: J. Manning
GE, CO, TS, TR, R&D

GARDEN CITY FAN CO.
801 N. Eighth St., Niles, Mich. (MUtual 3-1150)
Asst. Treas.-Purch. Agent: J. Gertz
Sales Engr.: E. E. Folkers
Pres.: G. E. Bauer

GARDNER-DENVER CO.
Front St., Quincy, Ill. (Tel. BAldwin 2-5400)
Dir.-Purch.: E. E. Groves
Gen. Sales Mgr.: G. W. Gutekunst MF, GH

GARDE MFG. CO.
53 John St., Cumberland, R. I. (Tel. PAwtucket 6-4200)
Purch. Agent: Charles H. O'Koomian
Pres.: A. C. Demurjian

GARDNER LABORATORY, INC.
P. O. Box 5728, Bethesda 14, Md. (Tel. OL 6-3600)
Head-Purch. Dept.: W. J. Furmage
Head-Sales: Henry A. Gardner, Jr. TS

GEORGE K. GARRETT CO., INC.
Torresdale Ave. at Tolbut St., Philadelphia 36, Pa. (Tel. DEvonshire 2-6000)
Purch. Agent: Joseph Armstrong
Sales Mgr.: Walter G. Johnson MM

GARRETT CORP., THE, AIR CRUISERS DIV.
Rt. 34, Wall Township, N. J.; P. O. Box 180, Belmar, N. J. (Tel. MUtual 1-3527)
Purch. Agent: W. Howard Trowbridge
Div. Mgr.: Walter L. Clark
Mgr., Contract Admin.: Earl E. Dix MF, PS

GAS APPLIANCE STORES, INC.
Box 5057, Columbia, S. C. (Tel. ALpine 2-7248)
Pres.: J. C. Beatty

GASKET MFG. CO. INC.
319 W. 17th St., Los Angeles 15, Calif. (Tel. RIchmond 9-4063)
Purch.: C. Lane
Sales: D. W. Goodin MF, WN, PS

GATKE CORP.
248 N. LaSalle St., Chicago 1, Ill. (Tel. STate 2-0081)
Purch. Agent: W. R. Berngen
Buyer: J. Call
V. P.-Sales: F. T. Gatke MF, WN, PS, MM

GENALEX DIV.-BRITISH INDUSTRIES CORP.
80 Shore Rd., Port Washington, N. Y. (Te. PO 7-7700)
Dir.-Sales: Ed Cornfield

GENERAL ALLOYS CO.
367-405 W. First St., Boston, Mass. (Tel. ANdrew 8-1710)
Purch. Agent: John Barnes
Asst. Sales Mgr.: Allyn S. Crawford
V. P.-Sales Mgr.: Thomas E. Franks MM

GENERAL AMERICAN TRANSPORTATION CORP.
135 S. LaSalle St., Chicago 90, Ill. (Tel. FInancial 6-4100)
Dir.-Purch.: C. Ingraham
Asst. Dir.-Purch.: W. Graham
Purch. Agent: E. Rothenbaum

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Warhead & Nose Cone	WN
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Ground Support	GS
Ground Handling	GH
Guidance Equipment	GE
Checkout Equipment	CO
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Tracking & Telemetering	TR
Research & Development	R&D
Materials & Metals	MM

GENERAL AUTOMATIC CORP.
12 Carlton Ave., Mountain View, Wayne, N. J. (Tel. CLifford 6-2756)
Sales Mgr.: Mort D. Barron — GS, CO, TS, TR

GENERAL BOX CO.
1825 Miner St., Des Plaines, Ill. (Tel. VAnderbilt 4-4181)
V. P. & Dir.-Purch.: C. Claude Watkins
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GENERAL CABLE CORP.
420 Lexington Ave., New York 17, N. Y. (Tel. LExington 2-2920)
V. P.-Purch.: E. B. McGrew
V. P.-Sales: H. G. Richardson
MF, WN, PS, GS, GH, GE, CO, TS, TR, MM

GENERAL CEMENT MFG. CO., DIV.-TEXTRON INC.
400 S. Wyman St., Rockford, Ill. (Tel. WOodland 8-9661)
Purch. Agent: George Kampmeir
V. P.-Sales: R. D. Gawne
MF, WN, PS, GS, GH, GE

GENERAL COIL PRODUCTS CORP.
147-12 Liberty Ave., Jamaica 35, N. Y.
Pres.: J. F. Siegel

GENERAL COMMUNICATION CO.
677 Beacon St., Boston 15, Mass. (Tel. COpley 7-6030)
Purch. Agent: J. M. Orsillo
Buyers: B. E. Johnston & D. A. Collignon
Dir.-Sales: J. L. Weis
Sales: C. E. Roche — GS, CO, TS, TR, MM

GENERAL COMPONENTS INC.
225 E. 144th St., New York 51, N. Y. (Tel. MOtthaven 5-0740)
Purch. Agent: Michael Meola
Chief Engr.: Sal De Ianni
Sales Mgr.: Henry Meola
MF, WN, PS, GS, GH, GE, TR

GENERAL CRYSTAL CO., INC.
372 Wilmot Ave., Burlington, Wisc. (Tel. ROckwell 3-2425)
Treas.: J. H. Larimer
Sales Mgr.: Norden Haus — TR

GENERAL DESIGN
631 30th St., San Diego, Calif. (Tel. BE 4-2090)
Dir.-Purch.: L. M. Foss
Sales Engr.: J. C. Pemberton — TS, R&D

GENERAL DEVICES, INC.
P. O. Box 253, Princeton, N. J. (Tel. DAvis 9-2323)
Purch. Agent: J. B. Schmidt
Buyers: R. Torgeson & L. Irvine
Contract Mgr.: Murray Medvin — GE, TR, R&D

GENERAL ELECTRIC CO., APPARATUS SALES DIV.
1 River Rd., Schenectady 5, N. Y. (Tel. FRanklin 4-2211)
Mgr.-Material: H. F. Conway
Buyer: F. J. Sullivan
Mgr.-Mil. Pwr. Supply Sales: J. R. Topper
WN, PS, GS, GE, CO, TR, R&D

GENERAL ELECTRIC CO., CATHODE RAY TUBE DEPT.
Bldg. 6, Electronics Park, Syracuse, N. Y. (Tel. GR 6-4411)
Purch. Agent: D. R. Coffman
WN, PS, GS, GH, GE, CO, TS, TR, MM, R&D

GENERAL ELECTRIC CO., COMPUTER DEPT.
13430 N. Black Canyon Hwy., Box 270, Phoenix, Ariz. (Tel. WI 3-2351)
Purch. Mgr.: J. P. Barford
Purch., Sheet Metal Parts: S. T. Brown
Purch., Electromechanical Assemblies: S. Karp
Purch., Electrical Components: W. Adams
Mgr.-Mktg.: G. A. Hagerty
GS, CO, TS, R&D

GENERAL ELECTRIC CO., DEFENSE SYSTEMS DEPT.
Bldg. 1, Electronics Park, Syracuse, N. Y. (Tel. GRanite 6-4411)
Purch. Agent: J. M. Parmelee
Buyers: J. E. Gaitley, G. P. Dittmar & J. R. Hanson
Sr. Buyer: C. F. Moore
Mktg. Mgr.: Warner R. Sinback
MF, WN, PS, GS, GH, GE, CO, TS, TR, MM, R&D

GENERAL ELECTRIC CO., HEAVY MILITARY ELECTRONICS DEPT.
Court St., Syracuse, N. Y. (Tel. GRanite 6-4411)
Purch. Agent: R. H. Pickett
Sales Mgr.: R. J. Brown
GS, GH, GE, CO, TS, TR, R&D

GENERAL ELECTRIC CO., INSULATOR DEPT.
S. Charles & Cromwell Sts., Baltimore, Md. (Tel. PLaza 2-8020)
Mgr.-Materials: K. W. Ashman
Buyers: R. J. Mytke & E. H. Rickels
Mgr.-Headquarters Sales: C. B. Vaughn

GENERAL ELECTRIC CO., LAMP GLASS DEPT.
Nela Park, Cleveland, Ohio (Tel. IVanhoe 6-3000)
Mktg. Mgr.: W. R. Becker

GENERAL ELECTRIC CO., LAMP METALS & COMPONENTS DEPT.
21800 Tungsten Rd., Cleveland 17, Ohio (Tel. KEnmore 1-5050)
Purch. Mgr.: F. P. Nemec, Nela Park 12, O. (Tel. GLenville 1-6600)
Mktg. Mgr.: J. W. Forbes — MM

GENERAL ELECTRIC CO., METALLURGICAL PRODUCTS DEPT.
11177 E. 8 Mile Rd., Detroit 32, Mich. (Tel. JEfferson 6-9100)
Purch. Mgr.: H. Millar
Mgr.-Specialty Alloy Mfg.: J. D. Benedict
Mgr.-Sales, Specialty Alloys: J. Stevenson — MM

GENERAL ELECTRIC CO., MISSILE & SPACE VEHICLE DEPT.
Lakeside Ave., Burlington, Vt. (Tel. UNiversity 3-3411)
Mgr.-Materials: G. W. Curry
Purch. Agent: J. H. Drury
Mktg. Mgr.: R. G. Loecher
MF, WN, GS, GH, CO, TS, MM

GENERAL ELECTRIC CO., MISSILE & SPACE VEHICLE DEPT. (PA.)
3198 Chestnut St., Philadelphia 4, Pa. (Tel. EVergreen 2-7800)
Purch. Mgr.: J. P. Benzie
Mgr., Sub-contracting: K. N. Thompson
Mgr.-Mktg.: R. M. Fritz
WN, GS, GH, CO, TS, TR, MM, R&D

GENERAL ELECTRIC CO., TECHNICAL PRODUCTS DEPT.
Electronics Park, Bldg. 6, Syracuse, N. Y. (Tel. GRanite 6-4411)
Purch. Agent: F. M. Brown
Sales Mgr.: C. S. Simon
Mgr., Mktg. Dev.: C. W. Michaels — TS, TR, R&D

GENERAL ELECTRIC CO., WIRE & CABLE DEPT.
1285 Boston Ave., Bridgeport 2, Conn. (Tel. EDison 4-1012)
Mgr.-Materials: R. H. Merrill
Mgr.-Mktg.: J. S. Overstreet — MM

GENERAL ELECTRIC CO., X-RAY DEPT.
4855 Electric Ave., Milwaukee 1, Wisc. (Tel. EVergreen 3-3211)
Mgr.-Materials: S. D. Hayward
Mgr.-Indsl. Sales: J. W. Webster — TS, TR, MM

GENERAL ELECTRODYNAMICS CORP.
4430 Forest Lane, P. O. Box 517, Garland, Texas (Tel. BRoadway 6-1161)
Purch. Agent: Joe A. Matthews
Exec. V. P.: Francis J. Salgo
Mgr., Tube Div.: Herman Albertine, Jr.
Mgr., Equipment Div.: B. W. Griffith — GE, TR, R&D

GENERAL ELECTRO-MECHANICAL CORP.
785 Hertel Ave., Buffalo 7, N. Y. (Tel. BE 9685)
Purch. Agent: E. Kurtz
Sales Mgr.: E. B. Butler — GS, GH

GENERAL FILTERS, INC.
43800 Grand River Ave., Novi, Mich. (Tel. Fieldbrook 9-2481)
V. P.-Purch.: Roland A. Redner
Pres.: Mrs. Grace Redner — GS, GH

GENERAL FIRE EXTINGUISHER CORP., THE
8740 Washington Blvd., Culver City, Calif. (Tel. TExas 0-6644)
Purch. Agent: T. L. Windsor
V. P.-Sales: E. K. Paine — GS

GENERAL GASKET INC.
Middletown, Conn. (Tel. DIamond 6-6203)
V. P.-Purch.: E. London
V. P.-Sales: D. London — MF, WN, PS, GE, TR

GENERAL INSULATED WIRE WORKS
69 Gordon Ave., Providence 5, R. I. (Tel. HOpkins 1-2100)
Purch. Agent: M. Fargnoli
Sales Mgr.: C. J. Craig, Jr.

GENERAL KINETICS, INC.
555 23rd St., S., Arlington 2, Va. (Tel. OTis 4-7555)
Purch. Agent: S. P. Vanderslice
V. P.-Sales: W. L. Anderson — TS

GENERAL LABORATORY ASSOCIATES, INC.
17 E. Railroad St., Norwich, N. Y. (Tel. 4-3264)
Purch. Agent: Harold H. Horton
Dir.-Sales & Service: L. A. DeMellier — PS

GENERAL LOGISTICS DIV., AEROQUIP CORP.
2929 Floyd St., Burbank, Calif. (Tel. VIctoria 9-5831)
Sales Mgr.: Dick Mosher
Eastern Sales Mgr.: L. S. Haynes, Jr., Jackson, Mich. (Tel. STate 2-0361) — GH, MM

GENERAL MAGNETICS, INC.
135 Bloomfield Ave., Bloomfield, N. J. (Tel. PIlgrim 8-2400)
V. P.-Sales: M. G. Tekosky
Secy.-Treas.: Ralph W. Froese — GE, TR, R&D

GENERAL MOTORS CORP., ALLISON DIV.
Main & 13th Speedway, Indianapolis, Ind.

GENERAL PHONES CORP.
5711 Howe St., Pittsburgh 32, Pa. (Tel. EMerson 1-7970)
V.P.-Purch.: L. McClure Lanning — TR

GENERAL PHOTO PRODUCTS CO., INC.
15 Summit Ave., Chatham, N. J. (Tel. ME 5-5200)
Mgr.: R. J. Paulas — GS

GENERAL PLASTICS CORP. OF NEW JERSEY
165 3rd Ave., Paterson, N. J. (Tel. ARmory 4-4710)
Purch. Agent: H. Berto
Sales: E. W. Davidson

GENERAL PRECISION LAB. INC.
63 Bedford Rd., Pleasantville, N. Y. (Tel. ROgers 9-5000)
Dir.-Purch.: A. C. Schreiber
V. P.-Avionic Sales: W. J. Tull
V. P.-Ind. Sales: B. Foulds — GE, TR, R&D

GENERAL PRODUCTS CORP.
Salem St., Union Springs, N. Y. (Tel. 7-7367)
Purch. Agent: D. L. Webb
Sales Mgr.: C. Howard Leaf — GS, GE, CO, TS, TR

GENERAL RADIO CO.
275 Massachusetts Ave., Cambridge 39, Mass. (Tel. TRowbridge 6-4400)
Purch. Mgr.: Colby E. Kelly, 22 Baker Ave., West Concord, Mass. (Tel. EMerson 9-4400, Ext. 202)
Sales Mgr.: Myron T. Smith

GENERAL R-F FITTINGS, INC.
702 Beacon St., Boston, Mass. (Tel. KEnmor 6-2290)
Purch. Agent: Robert J. Hoff
V. P.-Engrg.: Owen L. Cook
MF, PS, GS, GH, GE, CO, TS, TR

GENERAL SCIENTIFIC EQUIPMENT CO.
7516 Limekiln Pike, Philadelphia 50, Pa. (Tel. HAncock 4-1550)
Purch. Agent: J. Q. Kline
Head-Sales: M. Kline
PS, GS, GH, GE, CO, TS, TR

GENERAL TESTING LABS., INC.
580 Washington Ave., Carlstadt, N. J. (WEbster 9-6933)
Dir.-Purch.: R. F. Furlong
Sales Engr.: A. N. Purdy — TS, R&D

GENERAL TRANSISTOR CORP.
91-27 138th Pl., Jamaica 35, N. Y. (Tel. HIckory 1-1000)
Purch. Agent: John Grillo — TR

GENERAL TRANSISTOR WESTERN CORP.
6110 Venice Blvd., Los Angeles 34, Calif. (Tel. WEbster 3-5867)
Purch. Agent: Hugh Aspinwall
V. P.-Sales: Martin Braude — GE, R&D

GENERAL VACUUM CORP.
400 Border St., E. Boston 28, Mass. (Tel. LOgan 7-8800)
Purch. Agent: D. J. Tobin
Dir.-Sales: W. G. Overacker

GENISCO, INC.
2233 Federal Ave., Los Angeles 64, Calif. (Tel. BRadshaw 2-2706)
Purch. Agent: G. F. Coyle
Sales Mgr., Instrument Div.: Leon Glazerman
Sales Mgr., Mechanical Div.: M. A. White
GE, TS, R&D

GENISCO, INC., INSTRUMENT DIV.
2209 Barry St., Los Angeles 64, Calif. (Tel. GRanite 8-1276)
Purch. Agent: Gerry Coyle
Sales Mgr.: Leon J. Glazerman — GE, TS, TR

GENISTRON, INC.
2301 Federal Ave., Los Angeles 64, Calif. (Tel. BRadshaw 2-0189)
Purch. Agent: John Brunskill
Sales Mgr.: John F. Harrison — TS, MM

GENTEX CORP.
450 Seventh Ave., New York 1, N. Y. (Tel. CHickering 4-6400)
Purch. Agent: Elmer Kugler, Carbondale, Pa. (Tel. CArbondale 1840)

GEORATOR CORP.
315 Tudor St., Manassas, Va. (Tel: EMpire 8-2101)

Pres.: Shelley Krasnow
Purch. Agent: Worth Hatch GS, TS

GEOTRONIC LABS. INC.
1314 Cedar Hill Ave., Dallas 8, Texas (Tel. WH 6-9123)
Dir.-Purch.: D. B. Rennen GE, CO, TS, TR, R&D

GERBET HAIRSPRING CO.
Bridge St., Thomaston, Conn. (Tel. ATlas 3-4857)
Partner: Jack Weiss

GERING PRODUCTS, INC.
N. 7th St. & Monroe Ave., Kenilworth, N. J. (Tel. New York City – COrtland 7-3583; N. J. – BRidge 6-2900)
Purch. Agent: M. J. Malik
Dir.-Sales: Horton Conrad MM

G. M. GIANNINI & CO., INC.
918 E. Green St., Pasadena, Calif. (Tel. RYan 1-7152)
V. P. & Gen. Mgr.: D. R. Gero GE, TR, R&D

GIANNINI PLASMADYNE CORP.
3839 S. Main St., Santa Ana, Calif. (Tel. KImberly 5-7171)
Head Buyer: Murray Sturmer
Dir.-Sales: R. D. Webb PS, R&D

GIBSON ELECTRIC CO.
Box 559, Delmont, Pa. (Tel. HOward 8-7701)
Purch. Agent: Raymond C. Hannegan
Buyer & Asst. Purch. Agent: Miss Addie Glaub
Sales Mgr.: Frederick R. Farnham
MF, WN, GH, GE, TR, MM

GILFILLAN BROS. INC.
1815 Venice Blvd., Los Angeles, Calif. (Tel. DUnkirk 1-3441)
Purch. Agent: John L. Forrest
Asst. Purch. Agent, Electrical Parts: George Steil
Asst. Purch. Agent, Outside Production-Machined Parts: William Chew
Asst. Purch. Agent, Outside Production-Sheet Metal: Joseph Copeland
V. P.-Sales: A. Jennings Brown
GS, GE, CO, TS, TR, R&D

GILL ELECTRIC MFG. CORP.
624 W. Citrus Ave., Redlands, Calif. (Tel. PYramid 3-3131)
Purch. Agent: V. D. Wilson

DUNCAN M. GILLIES CO. INC.
66 Central, West Boylston, Mass. (Tel. TEmple 5-4445)
Pres.: Duncan M. Gillies

MARTY GILMAN, INC.
Gilman, Conn. (Tel. TUrner 7-4945)
Pres.: Martin J. Gilman

GILMAN BROTHERS CO., THE
Gilman, Conn. (Tel. TUrner 9-8444)
Pres.: Lawrence M. Gilman
Sales Mgr.: Rose Tangari MM

GILMORE INDUSTRIES, INC.
13015 Woodland Ave., Cleveland 20, O. (Tel. RA 1-6400)
Purch. Agent: M. Nager
V. P.-Sales: L. S. Winston GS, CO, TS, R&D

GITS BROTHERS MFG. CO.
1846 S. Kilbourn Ave., Chicago 23, Ill. (Tel. LAwndale 1-3554)
Purch. Agent: R. Sherman
Sales: R. W. Barz PS, GS, TS

GLADDING, McBEAN & CO.
2901 Los Feliz Blvd., Los Angeles 39, Calif. (Tel. NOrmandy 3-3361)
Purch. Agent: Boyd Moon
Sales: S. V. Saginor WN, MM, R&D

GLASS ENGRG. DIV., BRAUN-KNECHT-HEIMANN CO.
601 O'Niell Ave., Belmont, Calif. (Tel. LYtell 3-8276)
Purch. Agent: H. M. Warden
Sales Mgr.: H. Hutchings R&D

GLASSCO INSTRUMENT CO.
660 S. Fair Oaks Ave., Pasadena 2, Calif. (Tel. SYcamore 5-3278)
Factory Supt.: George Northrop
V. P.-Sales: C. W. Froude PS, GE, CO, TS

GLASSEAL PRODUCTS CO., INC.
1111 E. Elizabeth Ave., Linden, N.J. (Tel. HU 6-2067)
Purch. Dept.: J. Graham
Gen. Sales Mgr.: Alexander Anderson MM

GLOBAR PLANT, REFRACTORIES DIV.-THE CARBORUNDUM CO.
Niagara Falls, N. Y. (Tel. 5715)
Sales Mgr.: D. S. Bowman MM, R&D

GLOBE AUTOMATIC SPRINKLER DIV., THE FYR-FYTER CO.
Rt. 1, Box 750, Newark 1, N. J. (Tel. BIgelow 8-2200)
V. P.: C. T. Mallory MM

GLOBE ELECTRICAL MFG. CO.
1729 W. 134th St., Gardena, Calif. (Tel. FAculty 1-3311)
Purch. Agent: William Ostendorf
V. P.-Sales: Joe A. Gamache GS, GH, TR

GLOBE HOIST CO.
1000 E. Mermaid Lane, Philadelphia 18, Pa. (Tel. CHestnut Hill 7-3575)
Purch. Agent: William Craig
V. P.-Sales: Argus Leidy GH

GLOBE INDUSTRIES, INC.
1784 Stanley Ave., Dayton, O. (Tel. BAldwin 2-3741)
Purch. Agent: John Trostle
Purch.: Lester Zartman & Robert McRose
Sales Mgr.: Yale J. Holt PS, GS, GE

GLOBE INDUSTRIES, INC., SUPERMET DIV.
1460 Cincinnati St., Dayton, O.

GOE ENGRG. CO.
219 S. Mednik Ave., Los Angeles 22, Calif. (Tel. ANgeles 1-2183)
Purch. & Sales: Jack Goergl
Purch.: Bob Relly
Secy.: Kay Glen MF, WN, PS, GS, GE, TS, TR

JOHN GOMBOS CO., INC.
Webro Rd., Clifton, N. J. (Tel. PRescott 3-6633)
Buyer: J. M. Fuller
Production Control Dept.: M. Levitch
Methods Engr.: J. Marcelli
Sales Mgr.: Harold J. Schatz GE

GOOD ELECTRONIC CORP.
P. O. Box 2406, West Palm Beach, Fla. (Tel. VIctor 8-3241)
Pres.: Lewis F. Good, Sr. TS, R&D

GOOD-ALL ELECTRIC MFG. CO.
112 W. First St., Ogallala, Nebr. (Tel. 900)
Purch. Agent: Frank Pincheon
Chief Engr.: Loren Kolste
Sales Mgr.: E. M. Sheridan
GS, GE, CO, TS, TR, R&D

B. F. GOODRICH AVIATION PRODUCTS
500 S. Main St., Akron, O. (Tel. BLackstone 3-1171)
Gen. Mgr.-Sales: E. H. Fitch WN, PS, MM, R&D

B. F. GOODRICH CO., THE
Shelton, Conn. (Tel. REgent 5-4661)
Purch. Agent: Robert Nicol
Asst. Purch. Agent: Edward Grant
Buyers: Alfred Fisher & Samuel Goodman
Sales Mgr.: J. I. Gillis

B. F. GOODRICH INDUSTRIAL PRODUCTS CO.
500 S. Main St., Akron 18, O. (Tel. BLackstone 3-1171)
Dir.-Adv.: H. E. Van Petten

GOODYEAR AIRCRAFT CORP.
1210 Massillon Rd., Akron 15, O. (Tel. REpublic 3-6361)
Purch. Agent: H. A. Delaney
Mgr.-Material Purch.: A. L. Gravesmuehl
Mgr.-Subcontract Purch.: W. R. Reed

GOODYEAR TIRE & RUBBER CO., THE, AVIATION PRODUCTS DIV.
1144 E. Market St., Akron, Ohio (Tel. FRanklin 6-1411)
Dir.-Purch.: I. S. Gharky
Buyer: A. J. Bartee
Gen. Mgr., Aviation Products Div.: E. M. Eickmann
GS, GH, MM, R&D

CLAUD S. GORDON CO.
3000 S. Wallace St., Chicago 16, Ill. (Tel. VIctory 2-6525)
Purch. Agent: M. J. McDonagh
Sales Mgr.: F. C. Collins TS

GORDON ENTERPRISES
5362 N. Cahuenga Blvd., N. Hollywood, Calif. (Tel. POplar 6-3725)
Dir.-Purch.: D. M. Stern
Purch. Agents: R. Cohen & N. Powell
Sales Mgr.: G. W. Sutphin CO, TS, TR, R&D

GORDOS CORP.
250 Glenwood Ave., Bloomfield, N. J. (Tel. PIlgrim 3-6800)
Purch. Agent: G. B. Marchev GE, TS, TR

GORMAN-RUPP CO., THE
305 Bowman St., Mansfield, O. (Tel. LAfayette 4-4211)
Dir.-Purch.: C. R. Rupp
Purch. Agent: C. R. Frederick
Government Sales: R. E. Owens
Sales Mgr.: James C. Gorman GS, GH

GORRELL & GORRELL
336 Old Hook Rd., Westwood, N. J. (Tel. NOrth 4-7757)
Dir.-Purch.: John Gorrell
Plant Mgr.-Purch.: Bert Bock
Chief Engr.-Purch.: Orvis Scudder TS

GEORGE GORTON MACHINE CO.
1321 Racine St., Racine, Wisc. (Tel. MElrose 4-6644)
Purch. Agent: Paul Paulson
Dir.-Sales: Kenneth Christopherson

GOSHEN RUBBER CO., INC.
641 E. Iowa St., Goshen, Ind. (Tel. 3-1111)
Purch. Agent: C. N. Everingham
Sales Mgr.: Joseph L. Lantz

GOSLIN ELECTRIC & MFG. CO.
2921 W. Olive Ave., Burbank, Calif. (Tel. VIctoria 9-3025)
Purch. Agent: A. M. Galbraith GE, TS, TR, R&D

GOULDS PUMPS INC.
300 Fall St., Seneca Falls, N. Y. (Tel. LOgan 8-5811)
Purch. Agent: C. H. Kissel
V. P. & Sales Mgr.: E. E. Backlund GS

GOW-MAC INSTRUMENT CO.
100 Kings Rd., Madison, N. J. (Tel. FRontier 7-3450)
Pres.: James L. McFadden TS, R&D

GRAFLEX, INC.
3750 Monroe Ave., Rochester 3, N. Y. (Tel. LUdlow 6-2020)
Purch. Agent: C. S. Krembel
Asst. Purch. Agent: H. W. Griffith
Buyer-Expediter: A. M. McGovern
Contract Sales Mgr.: G. W. Lehman GE, TR

GRAFO COLLOIDS CORP.
310 Wilkes Place, Sharon, Pa. (Tel. DI 6-5023)
Asst. Secy.-Purch.: D. M. Zarella
Sales Mgr.: E. W. Willson PS, GS

GRAMM TRAILER CORP.
425 E. O'Connor Ave., Lima, Ohio (Tel. CA 9-7015)
Purch. Agent: V. D. Buchanan
Sales Mgr., Military Products: William J. Saelzler
GS, GH, GE, CO, TR

GRAND CENTRAL ROCKET CO.
Box 111, Redlands, Calif. (Tel. PYramid 3-2211)
Dir.-Material: C. Dean Currier
Dir.-Mfg. & Test.: Angus Scott
Dir.-Tech. Services: Kenneth H. Jacobs
V. P. & Gen. Mgr.: Dr. Cledo Brunetti
PS, TS, R&D

GRANT CHEMICAL CO., INC.
1911 N. 4th St., Baton Rouge, La. (Tel. DI 4-5633)
V. P.-Sales: Edward D. Grant, Jr.
Mgr., Resin Sales: Paul Edgar MM

GRANT GEAR WORKS, INC.
161 W. 2nd St., Boston, Mass. (Tel. AN 8-4408)
Purch. Agent: J. F. Cromwell
Sales & Adv. Mgr.: F. E. Emery PS, GS

GRANT MFG. & MACHINE CO., THE
90 Missile Ave., Bridgeport 5, Conn. (Tel. FOrest 6-4557)
Purch. Dept.: 90 Silliman Ave., Bridgeport 5, Conn. (Tel. FOrest 6-4557)

GRANT PULLEY & HARDWARE CORP.
High St., West Nyack, N. Y. (Tel. NYack 7-4400)
Purch. Mgr.: Mrs. Kay Saller
Sales: Jack Vissman

GRAPHITE METALLIZING CORP.
1038 Nepperhan Ave., Yonkers, N. Y. (Tel. YOnkers 8-8400)
V. P.-Purch. & Factory Mgr.: Edward E. Williams
Gen. Mgr.-Sales: Warren W. Walker
MF, WN, PS, GS, GE, CO, TS, TR

GRAY CO., INC.
60 11th Ave., N. E., Minneapolis 13, Minn. (Tel. FEderal 6-9331)
Purch. Agent: W. F. Bloedow
Asst. Purch. Agent: L. Wandel
Ind. Sales Mgr.: E. L. Niederloh PS, GS

GRAY INSTRUMENT CO.
200 E. Church Lane, Philadelphia 44, Pa. (Tel. GE 8-3168)

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Missile Frame	MF
Warhead & Nose Cone	WN
Propulsion System	PS
Ground Support	GS
Ground Handling	GH
Guidance Equipment	GE
Checkout Equipment	CO
Test Equipment	TS
Tracking & Telemetering	TR
Research & Development	R&D
Materials & Metals	MM

Treas.: Tom Mather
V. P.-Sales: A. R. Bechtel TS

GREAT EASTERN METAL PRODUCTS CO.
22 Woodworth Ave., Yonkers, N. Y. (Tel. GReenlead 6-7300)
Pres.: Lester Weinberg MM, R&D

GREAT LAKES CARBON CORP., ELECTRODE DIV.
18 E. 48th St., New York 17, N. Y. (Tel. ELdorado 5-6200)
Gen. Sales Mgr.: Samuel H. Reynolds
Purch. Dept.: P. O. Box 637, Pine Ave. at 58th St., Niagara Falls, N. Y. (Tel. BUtler 3-7611)
Purch.-Dir.: George H. Carney MM

GREAT LAKES MFG. CORP.
4223 Monticello Blvd., Cleveland 21, Ohio (Tel. EVergreen 2-5500)
Purch. Agent: R. A. Swanson
Buyer: S. E. Baginski
Pres.: J. A. Kanuch MF, WN, PS, GS, GH, GE, TS

GREEN INSTRUMENT CO.
385 Putnam Ave., Cambridge 39, Mass. (Tel. ELiot 4-2989)
Purch. Agent: Lynd F. Tillyer
Sales Mgr.: W. Franklin Fullerton GS

GREEN RECTIFIER CO.
1-10 30th St., Fairlawn, N. J. (Tel. SWarthmore 7-8100)
Dir.-Purch.: I. Green
MF, WN, PS, GS, GH, GE, CO, TS, TR

GREENBRIER INSTRUMENTS INC.
Ronceverte, W. Va. (Tel. MIdway 7-4358)
Office Mgr.: R. L. Weikle
Sales: Dr. D. N. Campbell PS, GS, CO, TS, TR

ARNOLD GREENE TESTING LABS., INC
122 Hampshire St., Cambridge 39, Mass. (Tel. UNiversity 4-8800)
V. P.: Robert Halliday
Sales Mgr.: Ted Mongeau TS

GREENE, TWEED & CO.
340 Elm Ave., North Wales, Pa. (Tel. OXbow 9-4821)
Asst. Purch. Agent: Dorothy M. Segall
Purch. & Sales: Walter S. Josephson

GREENFIELD TAP & DIE, DIV.-UNITED-GREENFIELD CORP.
Sanderson St., Greenfield, Mass. (Tel. PR 3-3611)
Purch. Agent: Avery Bates
Sales: W. J. Eberlein MF

GREENLEAF MFG. DIV., THE, MANDREL IND. INC.
7814 Maplewood Ind. Ct., St. Louis 17, Mo. (Tel. STerling 1-9888)
Purch. Agent: P. J. Mahony
Sales Mgr.: J. L. Wimpey GE

GREER HYDRAULICS, INC.
New York International Airport, Jamaica 30, N. Y. (Tel. OL 9-9700)
Purch. Mgr.: Ralph Betschart
Gen. Sales Mgr.: Edward M. Greer
MF, PS, GS, GH, CO, TS, R&D

GREIBACH INSTRUMENTS CORP.
315 North Ave., New Rochelle, N. Y. (Tel. New Rochelle 3-7900)
Dir.-Purch.: Lester Kanarfogel
Dir.-Sales: Gunther Bielefeld TS

GREMCO, INC.
P. O. Box 7115, 3535 N. Sylvania, Ft. Worth, Tex. (Tel. TErminal 4-2836)
Purch. Agent: A. Krsak
Sales Mgr.: J. D. Taliaferro GS, GH, R&D

GRIEVE-HENDRY CO., INC.
1401 W. Carroll Ave., Chicago, Ill. (Tel. TAylor 9-0200)
Pres.: G. P. Grieve
V. P.-Sales: P. J. Calabrese TS

GRIMES MFG. CO.
515 N. Russell St., Urbana, O. (Tel. 3-5221)
Purch. Agent: John Davis
Asst. Purch. Agent: Paul Roles
V. P.-Sales: L. B. Moore
MF, GS, GE, CO, TS, TR

GRIMSON COLOR, INC.
381 Fourth Ave., New York 16, N. Y. (Tel. ORegon 9-9088)
Sales Mgr.: Pierre Boucheron

GRINNELL CO.
227 W. Exchange St., Providence 1, R. I. (Tel. TEmple 1-7000)
Purch. Agent: W. J. Duggan
Mgr., Saunders Valves Div.: A. G. Smith
Mgr., Fire Protection Div.: O. L. Swats GH

GRIP NUT CO.
Broad & Maple, South Whitney, Ind. (Tel. S. W. 112)
Purch. Agent: M. H. Rudd
V. P.-Sales: G. A. Bovenkerk MM

GRISCOM-RUSSELL CO., THE
Massillon, Ohio (Tel. TE 2-7421)
Dir.-Purch.: J. A. O'Neill
Buyer: A. D. Miller
Sales Engr.: L. H. Bradley
V. P.-Sales: C. D. Steffens
Contract Engr.: F. V. Huber PS, GS, GH

GROOV-PIN CORP.
1125 Hendricks Causeway, Ridgefield, N. J. (Tel. WHitney 5-6780)
Purch. Agent: H. Bernlohr
Sales Mgr.: R. G. Cummings MF, GS, GH

GROTNES MACHINE WORKS, INC.
5454 N. Wolcott Ave., Chicago 40, Ill. (Tel. LOngbeach 1-7693)
Purch. Agent: George C. Cuttner
Sales Mgr.: J. F. Coleman

GROVE VALVE & REGULATOR CO.
6529 Hollis St., Oakland 8, Calif. (Tel. OLympic 5-7700)
Purch. Agent: Roy West
V. P.-Gen. Sales Mgr.: George Doty GS, GH, TS

GRUMMAN AIRCRAFT ENGINEERING CORP.
Bethpage, L. I., N. Y. (Tel. WElls 1-1550)
Mgr.-Proc.: William N. Robertson
Purch. Agent: Norman J. Egloff
Chief Buyer, R&D: Charles Nauss
V. P.-Contracts: George F. Titterton MF, R&D

GUARDIAN ELECTRIC MFG. CO.
1621 W. Walnut St., Chicago 12, Ill. (Tel. CHesapeake 3-1100)
Purch. Agent: W. A. Rowell
Gen. Sales Mgr.: G. G. Rowell CO, TS

GUARDITE CO., DIV.-AMERICAN-MARIETTA CO.
Box 188, Wheeling, Ill. (Tel. LEhigh 7-1000)
Purch. Agent: O. L. Carter
Sales Mgr., Environmental Equip.: S. P. Voak TS

GUDEBROD BROS. SILK CO., INC.
225 W. 34th St., New York 1, N. Y. (Tel. LAckawanna 4-5858)
Purch. Dept.: 12 S. 12th St., Philadelphia 7, Pa. (Tel. WAlnut 2-1212)
Dir.-Purch.: Fred Hooven
Dir.-Sales: F. W. Krupp MM

GUDEMAN CO., THE
340 W. Huron St., Chicago 10, Ill. (Tel. DElaware 7-7400)
Purch. Agent: Robert Eggersted
V. P.-Sales: D. A. Fillmore GE, TS, TR

GUDEMAN CO. OF CALIFORNIA, INC., THE, MONROVIA DIV.
2669 S. Myrtle Ave., Monrovia, Calif. (Tel. HIllcrest 6-3101)
Dir.-Sales: Keith R. Clark

GUIDED MISSILE DIV.-DE HAVILLAND AIRCRAFT OF CANADA, LTD.
Downsview, Ontario, Canada (Tel. MElrose 3-5230)
Purch. Agent: S. M. Gilbert
Contracts Admin.: L. D. Clarke
Sales & Research Engr.: D. B. Cannon
GS, GE, CO, TS, R&D

GULTON INDUSTRIES, INC.
212 Durham Ave., Metuchen, N. J. (Tel. LIberty 9-3038)
Purch. Agent: Julius Furchheimer
Sales Coordinator: Edward Cohen GE, TS, R&D

GUNNAR LABS.
3003 26th St., W., Bradenton, Fla. (Tel. 5-2751)
Purch.: Dr. Gunnar Knos GS, TS, TR

GUSTIN-BACON MFG. CO.
210 W. 10th St., Kansas City 5, Mo. (Tel. HArrison 1-7788)
V. P. & Dir.-Purch.: M. Shields
Purch. Dept.: T. L. Fairfax, George Crowl, Ken Klann
V. P.-Sales: F. W. Muller MM

GWILLIAM CO., THE
370 Furman St., Brooklyn 1, N. Y. (Tel. MAin 4-2644)
Purch. Agent: Johannes E. Howay
Dir.-Sales: Mark R. M. Gwilliam
MF, WN, PS, GS, GH, GE, CO, TS, TR, MM, R&D

GYREX CORP., THE
3003 Pennsylvania Ave., Santa Monica, Calif. (Tel. EXbrook 3-0462)
Purch. Agent: W. J. Underwood, Jr.
Dir.-Sales: W. A. Barton GS, GE, CO, TR, R&D

HPL MFG. CO.
15210 Miles Ave., Cleveland 28, Ohio (Tel. WYoming 1-5000)
Purch. Agent: J. Yasenka
Sales Mgr.: M. Lorentz MM

HABERSTROH STUDIOS, INC.
9 W. 19th St., New York 11, N. Y. (Tel. AL 5-1827)
Dir.-Purch.: Alex Haberstroh

HADDAM MFG. CO., THE
Rt. 9, Haddam, Conn. (Tel. DImond 5-2303)
Purch. Agent: Mrs. K. G. Alderman
Sales Mgr.: E. T. Buxton

B. H. HADLEY, INC.
1427 S. Garey Ave., Pomona, Calif. (Tel. NAtional 9-5075)
Purch. Agent: T. R. McCoun
Dir.-Mkt.: J. T. Reilly PS, GS, TS, R&D

HAGAN CHEMICALS & CONTROLS, INC.
Box 1346, Pittsburgh 30, Pa. (Tel. WA 2-3737)
Head-Purch.: C. E. Kaufman
Sales Mgr.: T. M. Nourse TS

HAHN & CLAY
5100 Clinton Dr., Houston, Tex. (Tel. ORchard 2-1671)
Mgr.-Purch.: Billie Sommers
V. P. Purch.: Walter Clay
Gen. Mgr.-Fab. Steel: Lawrence F. Megow
V. P.-Sales: Gene Clay MF, WN, PS, GS

HALEDY ELECTRONICS CO.
57 William St., New York 5, N. Y. (Tel. WHitehall 3-3140)
Dir.-Purch.: V. Spierer
Dir.-Sales: T. Careri TS

HALLAMORE ELECTRONICS CO.
714 N. Brookhurst St., Anaheim, Calif. (Tel. PRospect 4-1010)
Purch. Agent: Donald D. Knapp
V. P.-Contracts: John R. Frost
GS, GE, CO, TS, TR

HALLER, RAYMOND & BROWN INC., DIV.- SINGER MFG. CO.
Science Park, State College, Pa. (Tel. ADams 7-7611)
Purch. Agent: James H. Smith
Mgr.-Sales: L. D. Rexroat GE, CO, TR, R&D

HALLETT MFG. CO.
5910 Bowcroft St., Los Angeles 16, Calif. (Tel. TE 0-7094)
Mgr.-Proc.: Robert D. Leeseman
V. P.-Sales: Stanley E. Estes PS, GS, GH

HALLIBURTON, INC., MFG. DIV.
4724 S. Boyle Ave., Los Angeles 58, Calif. (Tel. LUdlow 8-3181)
Purch. Agent: E. V. Kampschmidt
Sales Mgr.: J. W. Murphy
GS, GH, TS, TR, R&D

HALLICRAFTERS
4401 W. Fifth Ave., Chicago 24, Ill. (Tel. VA 6-6300)
Dir.-Purch.: Cliff Matthews
Asst. to Pres.: W. E. Peugh GS, GE, CO, TR

HALLIKAINEN INSTRUMENTS
1341 7th St., Berkeley 10, Calif. (Tel. LAndscape 4-1757)
Purch. Agent: W. C. Bagot
V. P. & Sales Mgr.: E. F. Schimbor TS, R&D

HALOGEN INSULATOR & SEAL CORP.
9960 Pacific Ave., Franklin Park, Ill. (Tel. GLadstone 5-9000)
Purch. Agent: Walter Lucas
Head-Sales: H. L. Asp MF, PS

HAMER VALVES, INC.
2919 Gardenia Ave., Box 1851, Long Beach 1, Calif. (Tel. GArfield 7-5491)
Purch. Agent: Lloyd Sheneberger
Sales Mgr.: Cleo P. Williamson GS

HAMILTON FOUNDRY & MACHINE CO., THE
1551 Lincoln Ave., Hamilton, Ohio

HAMILTON KENT MFG. CO.
427 W. Grant St., Kent, O. (Tel. ORchard 3-9555)
Dir.-Purch.: David Green
Dir.-Sales: E. J. Mulcahey GS, GH

HAMILTON STANDARD, DIV.-UNITED AIRCRAFT CORP.
Windsor Locks, Conn. (Tel. NAtional 3-1621)
Purch. Mgr.: John Spade
Asst. Purch. Mgr.: Wendell W. Suydam
Sales Mgr.: John Burridge
MF, PS, GS, CO, TS, R&D

HAMILTON WATCH CO.
Lancaster, Pa. (Tel. EXpress 4-7161)
Purch. Agent: C. S. Reese
Asst. Purch. Agent: J. H. Leaman
Mgr.-Indsl. Sales: G. White GE, TS, MM

HAMILTON WATCH CO., HATHAWAY INSTRUMENT DIV.
5800 E. Jewell, Denver 22, Colo. (Tel. SKyline 6-8301)
Purch. Agent: F. J. Knafelec
Gen. Sales Mgr.: R. A. Miller **CO, TS, R&D**

HAMILTON WATCH CO.-INDUSTRIAL DIV.
Columbia Ave., Lancaster, Pa. (Tel. EXpress 4-7161)
Purch. Dir.: J. H. Leaman
Dir.-Sales: Geo. C. White **GE, TR, MM, R&D**

HAMILTON WATCH CO., MILITARY PRODUCTS DIV.
Lancaster, Pa. (Tel. EXpress 4-7161)
Purch. Agent: Clarence S. Reese
Asst. Purch. Agent: J. H. Leaman
Mgr.-Customer Engrg. Military Prods. Div.: George F. Roberts
MF, WN, PS, GS, GE, CO, TS, TR

HAMLIN, INC.
1316 Sherman Ave., Evanston, Ill. (Tel. GReenleaf 5-8244)
Dir.-Purch.: Ronald Ferguson **GE**

HAMMARLUND MFG., CO., INC.
460 W. 34th, New York 1, N. Y. (Tel. LOngacre 5-1300)
Head-Purch.: Wm. Griffen
Gen. Sales Mgr.: H. A. McCloskey
GS, GE, CO, TS, TR, R&D

HAMMEL-DAHL DIV.-GENERAL CONTROLS CO.
Warwick Industrial Park, Warwick, R. I. (Tel. STuart 1-6200)
Purch. & Prod. Coordinator: Forrest G. Brown
Sales Mgr.: William R. Kennedy
Buyer: Eugene E. Collins **PS, TS**

HAMPDEN BRASS & ALUMINUM CO.
262 Liberty St., Springfield 1, Mass. (Tel. REpublic 6-1808)
Purch. Agent: Richard A. Wallace

HAMPDEN MFG. CO., INC.
Bridge St., Three Rivers, Mass. (Tel. PAlmer 353)
Pres.: Castle Day
Purch. Agent: T. H. Lasares **GE, TS**

HANDICRAFT TOOLS, INC., DIV.-X-ACTO, INC.
48-41 Van Dam St., Long Island City 1, N. Y. (Tel. EXeter 2-3333)
Purch. Agent: Mrs. Agnes Tinkler

HANDY & HARMAN
82 Fulton St., New York 38, N. Y. (Tel. BEekman 3-2460)
Dir.-Sales: Paul G. Feld **MM**

HANLON & WILSON CO., THE
Pittsburgh 21, Pa. (Tel. PE 1-1250)
Purch. Agent: H. Cleevely
Chief Engr.: S. J. Hannon
Sales Mgr.: W. G. Weil **PS, MM, R&D**

HANNIFIN CO., DIV.-PARKER-HANNIFIN CORP.
498-D S. Wolf Rd., Des Plaines, Ill. (Tel. VAnderbilt 7-1171)
Div. Secy.: M. R. Gault
Purch. Agent: Chester A. Miller
Buyer: W. W. Herrmann
Dir.-Sales: O. J. Maha **GS, GH**

HANSEN ELECTRONICS CO.
7117 Santa Monica Blvd., Los Angeles 46, Calif. (Tel. HO 9-3052)
Gen. Mgr.: E. K. Stokes **GE, TR**

HANSEN MFG. CO., THE
4031 W. 150th St., Cleveland 35, Ohio (Tel. CLearwater 2-3880)
Purch. Agent: W. A. Drexler
V. P. & Gen. Sales Mgr.: L. J. Hansen **GS**

HANSEN MFG. CO. INC.
1004 S. Hart St., Princeton, Ind. (Tel. FUlton 5-3415)
Treas: A. C. Rothert **PS, GE**

HANSON-GORRILL-BRIAN, INC.
85 Hazel St., Glen Cove, N. Y. (Tel. ORiole 6-7300)
Purch. Agent: J. S. Truesdell
Sales Engr: W. K. Burlingame **GS, CO, TS, TR**

HAPMAN CONVEYORS, INC.
630 Gibson St., Kalamazoo, Mich. (Tel. FIside 3-1675)
Buyer: James Hollis
Dir.-Sales: L. J. Riege **MM**

***HARCO CONTAINERS DIV.-HARBOR BOAT BUILDING CO.**
258 Cannery St., Terminal Island, Calif. (Tel. TErminal 2-5381)
Purch. Mgr.: Ray Rinderkneckt, Sr.
Sales Mgr.: A. W. Wall **GS**
*(See Page 55 for Advertisement)

HARCO LABS., INC.
77 Olive St., New Haven, Conn. (Tel. STate 7-6701)
Purch. Agent: Michael M. Gagliardi
Sales Mgr.: M. B. Marshall **PS, GS, CO, TS**

HAR-CONN CHROME CO.
603 New Park Ave., West Hartford 10, Conn. (Tel. AD 3-6225)
Gen. Mgr. & Purch. Agent: V. C. Hickey
Secy. & Sales Mgr.: T. J. O'Brien
MF, WN, PS, GS, GH, GE, TR, MM, R&D

PAUL HARDEMAN, INC.
11558 Tennessee Ave., Los Angeles, Calif. (Tel. BRadshaw 2-7861)
Purch. Dept. Mgr.: E. J. Lull
Admin. V. P.: H. J. Coil **GS, TS**

HARDINGE BROTHERS, INC.
1420 College Ave., Elmira, N. Y. (Tel. REgent 4-6256)
Purch. Agent: C. R. Bauman
V. P.-Sales: H. A. Lundy

HARDMAN TOOL & ENGRG. CO.
1845 S. Bundy Dr., West Los Angeles 25, Calif. (Tel. BRadshaw 2-0266)
Dir.-Purch.: A. C. Richardson
Sales & Adv. Mgr.: Douglas O'Neal **GH**

HARMAN EQUIPMENT CO.
3605 E. Olympic Blvd., Los Angeles 23, Calif. (Tel. ANgeles 1-4113)
Purch. Agent: F. Van Zant
Sales Mgr., Filter Div.: G. J. Harman, Jr.
PS, GS, GH

H. M HARPER CO.
8200 Lehigh Ave., Morton Grove, Ill. (Tel. OR 4-3000)
V. P.-Purch.: Theodore Wickman
V. P.-Sales: E. A. Channer
Purch. Agent: James Fairbairn **MM**

HARPER ENGRG. CO.
3308 Airport Ave., Santa Monica, Calif. (Tel. EXmont 1-6244)
Dir.-Purch.: Robert L. Voehringer
V. P.-Sales: Donald L. Cox
MF, WN, PS, GS, GH, GE, CO, TS, TR, R&D

HARPER-LEADER, INC.
1046 S. Main St., Waterbury 20, Conn. (Tel. PLaza 6-8164)
Pres.: P. J. Sloane
Secy.-Treas.: I. Cross **MF, WN, PS, GE, TR**

HARRIS REFRIGERATION CO.
308 River St., Cambridge 39, Mass. (Tel. UNiversity 4-4000)
Chief Engr.: Charles W. J. Harris
Sales Mgr.: Roliand S. Jamison **TS**

HARRISBURG STEEL CO.
Herr St., Harrisburg, Pa. (Tel. CEdar 4-8021)
Dir.-Purch.: Lee Muth
V. P.-Sales: H. M. Reeser **MF, WN, PS, GS, GH**

HARRISON LABS., INC.
45 Industrial Rd., Berkeley Hts, N. J. (Tel. CR 3-9123)
Purch. Agent: M. Barbour
Sales & Adv. Mgr.: A. M. Darbie
GS, GE, CO, TS, TR

HART MFG. CO., THE
147 Bartholomew Ave., Hartford, Conn. (Tel. JAckson 5-3491)
Pres.: G. H. Hart
Purch. Agent: R. W. James
Chief Engr.: H. R. Dahmer
Sales Mgr.: R. E. McIntosh **WN, GS, GE, TR, R&D**

***HARTFORD MACHINE SCREW CO., DIV.-STANDARD SCREW CO.**
Box 1440, Hartford 2, Conn. (Tel. JAckson 5-0821)
Purch. Agent: D. T. Bacon
Asst. Purch. Agent: M. R. Derrick
Buyers: J. Braine & R. Mullowney
Gen. Sales Mgr.: J. F. Miller **MS, WN, PS, GS**
*(See Pages 35, 46, 54, & 76 for Advertisement)

HARTMAN ELECTRICAL MFG. CO., THE
175 N. Diamond St., Mansfield, O. (Tel. LAfayette 4-1411)
Purch. Agent: W. M. Locke
Buyer: T. Roehm
Sales Mgr.: M. Trbovich **GS, GH, GE**

HARVEY ALUMINUM
19200 S. Western Ave., Torrance, Calif. (Tel. NEvada 6-2111)
Purch.: Dorsey Smith **MF, PS, GS, GH, MM, R&D**

HARVEY-WELLS ELECTRONICS INC.
North St., Southbridge, Mass. (Tel. POrter 4-4361)
Purch. Agent: Mario D. Angelis
Dir.-Sales: A. Carl Westbom **GS, GE, CO, TS, R&D**

HASKEL ENGRG. & SUPPLY CO.
1236 S. Central Ave., Glendale 4, Calif. (Tel. CHapman 5-6811); 225 11th St., San Francisco 3, Calif. (Tel. UNderhill 3-1489)
Dir.-Purch.: Carter Pierce
Sales Mgr.: Ralph W. Moss **GS, CO, TS**

HASKELITE MFG. CORP.
701-Ann St., N. W., Grand Rapids, Mich. (Tel. GL 8-1331)
Dir.-Purch.: F. W. Mitchell
Buyer: R. J. Willemsen
Sales Mgr.-Indsl. Div.: D. G. Slawson, Jr. **MM**

JOHN HASSALL, INC.
Box 2179, Westbury, L. I., N. Y. (Tel. EDgewood 4-6200)
Purch.: W. W. Smith
Sales: E. F. Karnes **MM**

HASTINGS PLASTICS, INC.
1551 12th St., Santa Monica, Calif. (Tel. EXbrook 3-7702)
Gen. Mgr.: Norry M. Hastings
Purch. Agent: Frank Lundstrom
MF, WN, PS, GS, GH, GE, MM, R&D

HAVEG INDUSTRIES, INC.
900 Greenbank Rd., Wilmington 8, Del. (Tel. WYman 8-2271)
Purch. Agent: P. L. Reynier
Asst. Purch. Agents: C. Wall & Dayton Simpson
Gen. Mgr.: John B. Mackenzie **MF, WN, MM, R&D**

***HAWS DRINKING FAUCET CO.**
4th & Page Sts., Berkeley 10, Calif. (Tel. LAndscape 5-3341)
Gen. Mgr.: J. E. Traynor
Sales Mgr.: T. R. Haws **PS, GS, GH, TS, R&D**
*(See Page 70 for Advertisement)

***A. W. HAYDON CO., THE**
231-D N. Elm St., Waterbury, Conn. (Tel. PLaza 6-4481)
Purch. Agent: Roy E. Ahlberg
Buyers: Fred Lawton, D. Roberts, J. Thompson
Sales Mgr.: R. J. Harrant
WN, PS, GS, GH, GE, CO, TS, TR
*(See Page 74 for Advertisement)

HAYDON DIV.-GENERAL TIME CORP.
245 E. Elm St., Torrington, Conn. (Tel. HUnter 9-3158)
Purch. Agent: J. E. Nicholas
Gen. Mgr.: C. H. Cummings

HAYDON SWITCH, INC.
536 S. Leonard St., Waterbury, Conn. (Tel. PLaza 6-7441)
Purch. Agent: John J. Leugminas
Sales Mgr.: Arthur N. Milliken **WN, PS, GS, CO**

C. I. HAYES, INC.
800 Wellington Ave., Cranston 10, R. I. (Tel. HOpkins 1-3400)
Purch. Agent: Ray C. Arnold
Gen. Sales Mgr.: James R. Elliott **MM, R&D**

HAYNES STELLITE CO., DIV.-UNION CARBIDE CORP.
1020 W. Park Ave., Kokomo, Ind. (Tel. GLadstone 2-5421)
Purch. Agent: J. H. Wallsmith
Buyers: R. S. Rees, R. M. Tudor, H. M. Wolf, J. R. Clawson
V. P.-Sales: R. L. Lerch
Gen. Sales Mgr.: C. G. Chisholm **MM**

HAYS CORP., THE
743 E. 8th St., Michigan City, Ind. (Tel. TRiangle 2-5561)
Purch. Agent: William Wagner
Mgr.-Sales: H. M. Twible

HAYS MFG. CO.
803 W. 12th St., Erie, Pa. (Tel. 2-3225)
Purch. Agent: P. N. Christensen
Sales Mgr.: H. H. Clemens **MM**

HAYWARD SCIENTIFIC GLASS CORP.
217 Magnolia Ave., Whittier, Calif. (Tel. OX 5-8213)
Secy.: Henry D. Shaw
V. P.-Sales: James L. Wood **GE**

HAZELTINE ELECTRONICS DIV.-HAZELTINE CORP.

CODING

Missile Frame	MF
Warhead & Nose Cone	WN
Propulsion System	PS
Ground Support	GS
Ground Handling	GH
Guidance Equipment	GE
Checkout Equipment	CO
Test Equipment	TS
Tracking & Telemetering	TR
Research & Development	R&D
Materials & Metals	MM

59-25 Little Neck Pkwy., Little Neck 62, N. Y. (Tel. FLushing 7-8700)
Asst. V. P.-Purch.: B. H. Rogers
Purch.: J. J. Kelly, E. L. Roseberry
V. P.-Sales: S. M. Thomas **GS, GE, R&D**

HEILAND DIV.-MINNEAPOLIS-HONEYWELL
5200 E. Evans Ave., Denver 22, Colo. (Tel. SKyline 6-3681)
Purch. Agent: R. V. Bertram
Asst. Purch. Agents: Warren Lindross & Phyllis Giffin
Mgr.-Instrument Sales: Lloyd J. Moyer **CO, TS**

HEINEMANN ELECTRIC CO.
Pennsylvania Ave. & Plum St., Trenton, N. J. (Tel. EXport 4-1191)
Purch. Agent: James E. Shugars
Sales Mgr.: Edgar Bromberg

HEINTZ MFG. CO.
Front St. & Olney Ave., Philadelphia, Pa.

HEIN-WERNER CORP.
1200 National Ave., Waukesha, Wisc. (Tel. Liberty 2-6611)
Purch. Agent: M. L. Lumb
Sales Mgr.: H. J. Scullin **MF, GS**

HELDOR MFG. CO., INC.
238 Lewis St., Paterson, N. J. (Tel. ARmory 1-0900)
V. P.-Purch.: Donald Wilson
Sales Mgr.: Ray Walker **MF, WN**

HELI-COIL CORP.
Shelter Rock Lane, Danbury, Conn. (Tel. Pioneer 3-7651)
Purch. Agent: Ted C. Gorman
Dir.-Sales: John E. Fasano **MF, GH, MM**

HELIPOT DIV.-BECKMAN INSTRUMENTS, INC.
2500 Fullerton Rd., Fullerton, Calif. (Tel. TRojan 1-4848)
Purch. Agent: Ed Schreiber
Mktg. Mgr.: Karl Heller **PS, GS, GE, CO, TS, TR**

HELWIG CARBON PRODUCTS, INC.
2550 N. 30th St., Milwaukee 10, Wisc. (Tel. HIlltop 2-7755)
Purch. Agent: N. E. Joers
V. P.-Sales: J. E. Koenitzer **GE**

HEMINWAY & BARTLETT MFG. CO., THE
500 Fifth Ave., New York 36, N. Y. (Tel. LOngacre 4-0880)
Sales Mgr.: C. Duane Houk **MM**

HENLOPEN MFG. CO., INC.
178 Cook St., Brooklyn 6, N. Y. (Tel. GL 6-4461)
Purch. Agent: Allan Costa
Gen. Mgr.: H. Elosua

HEPPENSTALL CO.
3000 Shelby St., Indianapolis, Ind. (Tel. ST 6-9261)
Purch. Agent & Mgr.-Ring Sales: V. H. Lanahan

HERCULES POWDER CO.
900 Market St., Wilmington 99, Del. (Tel. OLympia 8-7211)
Dir.-Purch.: Edwin S. Ladley
Dir.-Sales, Explosives Dept.: C. W. Ballard **PS, R&D**

HERLO ENGRG. CORP.
549 N. Prairie Ave., Hawthorne, Calif. (Tel. OS 5-4456)
Pres. & Gen. Mgr.: R. E. Cole **PS, GS**

HERTNER ELECTRIC CO., THE
12690 Elmwood Ave., Cleveland 11, O. (Tel. CLearwater 2-4242)
Purch. Agent: A. G. Lindrose
Buyer: R. E. Gariepy
Dir.-Sales: T. R. Mahoney **GS, GE, CO, TS**

HERZOG MINIATURE LAMP WORKS, INC.
50-17 Fifth St., Long Island City 1, N. Y. (Tel. ST 4-2275)
Pres.: Charles Perrenod
Buyer: Luke Perrenod
Asst. Buyer: William Dwyer **GS, GH, GE, CO, TS, TR, R&D**

HESCO ENGRG.
322 E. Beach Ave., Inglewood 3, Calif. (Tel. OR 8-4178)
Purch. Agent: A. T. Herring
Sales Mgr.: G. F. Wilson **GS, GH, TS, TR**

HEVI-DUTY ELECTRIC CO.
2040 W. Wisconsin Ave., Milwaukee Wis. (Tel. WEst 3-9339)
Purch. Agent: G. J. Bethke
V. P.-Sales: E. E. Staples **MM, R&D**

HEWITT-ROBINS, INC.
666 Glenbrook Rd., Stamford, Conn. (Tel. DAvis 4-1151)
Dir.-Purch.: C. W. Mottinger
V. P.-Sales: F. L. Griffith **MF, PS, GS, GH**

HEWLETT-PACKARD CO.
275 Page Mill Rd., Palo Alto, Calif. (Tel. DAvenport 5-4451)
Purch. Agent: Robert Sundberg
Asst. Purch. Agent: Donald Anderson
V. P.-Mktg.: W. N. Eldred **TS**

HEXCEL PRODUCTS INC.
2332 Fourth St., Berkeley 10, Calif. (Tel. THornwall 3-4664)
Purch. Agent: R. J. Wedemyer
V. P.-Sales: R. T. Hughes
Gen. Mgr.-Aircraft: A. C. Marshall
Gen. Mgr.-Indsl.: D. P. Bailey **MM, R&D**

HEYMAN MFG. CO.
Kenilworth, N. J. (Tel. CHestnut 5-2345)
Purch. Agent: K. E. Fahnestock
Sales Mgr.: J. L. Holder

HICKS CORP., THE
1671 Hyde Park Ave., Boston 36, Mass. (Tel. HY 3-2720)
Exec. V. P.-Purch.: Frank T. Majewski
Purch. Agent: John B. Sullivan
Purch. Agent, Asheville, N. C. Plt.: Leo Lyons (Tel. ALpine 3-5335)
Sales Mgr.: John O. Wagner **WN, PS, R&D**

HI-G, INC.
Bradley Field, Windsor Locks, Conn. (Tel. NAtional 3-3308)
Prod. Mgr.: A. Molava
V. P.-Sales: R. H. Wood **GE, TR**

HIGH SPEED HAMMER CO., INC., THE
313 Norton St., Rochester 21, N. Y. (Tel. COngress 6-6740)
Purch. Agent: G. W. Texter

HIGH VACUUM EQUIPMENT CORP.
2 Churchill Rd., Hingham, Mass. (Tel. RIverview 9-2430)
Purch. Agent: Walter Albaugh
Sales Admin.: William B. White **MF, PS, MM**

HIGH VOLTAGE ENGRG. CORP.
S. Bedford St., Burlington, Mass. (Tel. BR 2-1313)
Purch. Agent: Richard Chase
V. P. & Sales Mgr.: E. Alfred Burrill **TS, R&D**

HIGHLAND RIM MACHINE WORKS INC.
E. Walnut St., P. O. Box 282, Dickson, Tenn. (Tel. HIckory 6-6326)
Foreman: Spydell Davidson
Secy. & Treas.: Ralph Taylor **MF, GS, GH**

E. VERNON HILL & CO.
P. O. Box 189, Lake Geneva, Wisc. (Tel. CHestnut 8-3729)
Pres.: N. Peterson **MF, PS, GS, GE, CO, TS, TR**

HILL ELECTRONICS, INC.
300 N. Chestnut St., Mechanicsburg, Pa. (Tel. POplar 6-7611)
Purch. Agent: Michael Filepas
Sales Mgr.: James A. Nickerson

HILLBURN ELECTRONIC PRODS. CO.
55 Nassau Ave., Brooklyn 22, N. Y. (Tel. STagg 2-3875)
Purch.: B. S. Gilman
Sales: S. A. Shaw **GE**

HILLS-McCANNA CO.
3641 W. Touhy Ave., Chicago, Ill. (Tel. ORchard 4-7080)
Purch. Agent: R. Schmidt
Sales Mgr.-Foundry Div.: R. I. Allen **MF, PS, GS**

HI-LO MANUFACTURING CORP.
1122-26 W. Newport Ave., Chicago 13, Ill. (Tel. GRaceland 7-1890)
Pres.: F. J. Klancnik
Gen. Mgr.-Sales: E. A. Goncoe **GS, GH, GE, TS, TR**

HINDE & DAUCH DIV.-WEST VIRGINIA PULP & PAPER CO.
407 Decatur St., Sandusky, Ohio (Tel. MA 5-6610)
Dir.-Purch.: Gerald Swank
Asst. Purch. Agent: Harold Sartorius
Dir.-Sales: Paul Roberts **MM**

HINDLE TRANSFORMER CO. INC.
Woods Church Rd., R. D. 3, Flemington, N. J. (Tel. Flemington 836)
Purch. Agent: Mrs. Anne Schrimpe **GS, GH, TR**

CARL HIRSCHMANN CO., INC.
30 Park Ave., Manhasset, L. I., N. Y. (Tel. MA 7-5300)
Purch. & Sales: M. H. Kaefer **TS**

HI-SHEAR RIVET TOOL CO.
2600 W. 247th St., Torrance, Calif. (Tel. NEvada 6-9861); Mailing Address: P. O. Box 90545, Airport Station, Los Angeles 45, Calif.
Purch. Agent: Stirling Souder, 8924 Bellanca Ave., Los Angeles 45, Calif. (Tel. ORegon 8-4361)
V. P.-Sales: Guy Nash **MM, R&D**

HI-SPEC ELECTRONICS CORP.
7328 Ethel Ave., North Hollywood, Calif. (Tel. POplar 5-5075)
Pres.: John H. Mattson
V. P.-Mfg.: Chet R. Jones
V. P.-Engrg.: R. Y. Patterson **GE, TR**

HI-SPEED EQUIPMENT, INC.
63 Pond St., Waltham, Mass. (Tel. TWinbrook 3-6800)
Dir.-Sales: H. J. Cedrone **TR**

HITCHINER MFG. CO. INC.
P. O. Box 320, Milford, N. H. (Tel. MIlford 635)
Purch. Agent: Ralph Bodwell
Plant Engr.: L. Guertin
Gen. Mgr.: David Hoadley
Sales Mgr.: William H. Shuman **MF, PS**

HITEMP WIRES, INC.
1200 Shames Dr., Westbury, N. Y. (Tel. EDgewood 3-4600)
Purch. Agent: Patrick Hoade
V. P.-Sales: Walter Merck **MM**

HOBART BROTHERS CO.
Hobart Sq., Troy, Ohio (Tel. FEderal 2-1223)
Dir.-Purch.: B. A. Lutz
Sales Mgr.: E. C. Galbreath **MF, WN, PS**

JOHN W. HOBBS CORP., DIV.-STEWART-WARNER CORP.
P. O. Box 358, Springfield, Ill. (Tel. 8-7533)
Purch. Agent: P. W. Redieske
Gen. Sales Mgr.: B. D. Booth

HOBBS MFG. CO.
26 Salisbury St., Worcester, Mass. (Tel. PLeasant 6-8361)
Purch. Agent: F. J. Woodberry
Gen. Sales Mgr.: H. K. Lambert **R&D**

HOBSON BROTHERS, INC.
4940 W. Lawrence Ave., Chicago 30, Ill. (Tel. Avenue 3-3600)
Purch. Agent: H. L. Behm
Sales: Roy L. Hobson

HOCKS LABS.
935 N. E. Couch St., Portland 14, Ore. (Tel. BE 4-1388)
Dir.-Purch.: Art Austin
Sales Mgr.: W. G. Hocks

HOEFNER CORP.
9720 Rush St., El Monte, Calif. (Tel. CUmberland 3-4138)
Purch. Agent: Arnold E. Tapie
V. P.-Sales: Grant W. Fredericks **GH, PS, GS**

P. R. HOFFMAN CO.
321 Cherry St., Carlisle, Pa. (Tel. 1090)
Purch. Agent: Ralph J. Laury
Chemist: Warren J. Hunt
V. P.-Sales: Leon W. McGinnes **GS**

HOFFMAN ELECTRONICS CORP., SEMICONDUCTOR DIV.
930 Pitner Ave., Evanston, Ill. (Tel. UNiversity 9-9850)
Dir.-Purch.: Mrs. Dorothy Perkins
V. P.-Mktg.: G. W. DeSousa **GS, GE, CO, TR**

HOFFMAN ENGRG. CORP.
9th & Tyler, Anoka, Minn. (Tel. HA 1-2240)
Supt.: Philip DeJarlais
Gen. Mgr.: Reuben C. Krauik **GS**

HOFFMAN LABS. DIV., HOFFMAN ELECTRONICS CORP.
3740 S. Grand Ave., Los Angeles 7, Calif. (Tel. RIchmond 7-4488)
Dir.-Materiel: R. A. Gingrich
Dir.-Military Mktg.: J. G. Anderson **GS, GE, CO, TS, TR, R&D**

HOFMAN LABS., INC.
5 Evans Terminal, Hillside, N. J. (Tel. ELizabeth 4-4016)
Exec. V. P.: James Cox
Purch. Agent: Bernard Alperstein **GS**

ALFRED HOFMANN & CO.
635 59th St., West New York, N. J. (Tel. UNion 3-1300)
Purch. Agent: J. Meehan
Sales Mgr.: E. Weikert **MF, WN, PS, GS, GE**

HOGAN LABORATORIES, INC.
155 Perry St., New York 14, N. Y. (Tel. CHelsea 2-7855)
Purch. Agent: Garrett Moore
Exec. V. P.-Sales: Raymond W. Bristol **R&D**

C. G. HOKANSON CO., INC.
2140 Pontius Ave., Los Angeles 25, Calif. (Tel. GR 7-4231) **GS, GE, CO, TS, R&D**

HOKE INC.
21 Tenakill Park, Cresskill, N. J. (Tel. LOwell 8-9100)
Dir.-Purch.: R. MacLallen
Sales Mgr.: R. J. Moody **GS**

A. F. HOLDEN CO., THE
14341 Schaefer Hwy., Detroit 27, Mich. (Tel. BRoadway 3-5405)
V. P.-Purch.: J. B. Carey
Pres.: A. F. Holden

HOLEX, INC.
2751 San Juan Rd., Hollister, Calif. (Tel. MErcury 7-5306)
V. P.-Operations: George H. Anderson
Dir.-Sales: J. W. Jones **MF, WN, PS, GS, GH**

HOLLAND HITCH CO.
430 W. 18th St., Holland, Mich. (Tel. EX 6-6501)
Gen. Mgr.: W. F. Beebe
Purch. Agent: L. J. Poole
Sales Mgr.: C. N. Bouman **GH**

HOLLEY CARBURETOR CO.
11955 E. Nine Mile Rd., Warren, Mich. (Tel. JEfferson 6-1900)
Dir.-Purch.: N. J. Dann
Sr. Buyer: E. J. Masar
V. P. & Dir.-Sales: J. C. Holley **PS, R&D**

R. M. HOLLINGSHEAD CORP.
840 Cooper St., Camden 2, N. J. (Tel. WOodlawn 4-7000)
Purch. Agent: Orville Timms
Dir.-Sales & Purch.: Charles W. Griffiths **GS, MM, R&D**

HOLLINGSWORTH CO., SOLDERLESS TERMINAL DIV.
Nutt & French Creek Rds., Phoenixville, Pa. (Tel. WEllington 3-8947)
Purch. Agent: John J. Gress
Sales Mgr.: J. C. Ludwick

HOLTZER-CABOT DIV., NATIONAL PNEUMATIC CO., INC.
125 Amory St., Boston 19, Mass. (Tel. JAmaica 4-7000)
Purch. Agent: S. Coven
Sales Mgr.: E. B. Selig **GS, TS, TR**

HOLUB INDUSTRIES, INC.
413 DeKalb Ave., Sycamore, Ill. (Tel. 2161)
Secy.-Treas.: A. R. Linden
V. P. & Sales Mgr.: †Gordon W. Wetzel **MF, PS, GS, GH**

HOLYOKE WIRE & CABLE CORP.
720 Main St., Holyoke, Mass. (Tel. JEfferson 3-3961)
Purch. Agent: Robert J. O'Connor
Mgr.-Sales: G. T. Miles

HOMALITE CORP., THE
11-13 Brookside Dr., Wilmington, Del. (Tel. OL 2-6641)
Pres.: W. R. Hoover
Shop Foreman: Harold Wilson
Dir.-Sales: Thomas J. Christeson

HOMELITE, DIV.-TEXTRON INC.
Riverdale Ave., Port Chester, N. Y. (Tel. WEstmore 9-3400)
Purch. Agent: John Clark
Sales Mgr.: R. P. Straetz **GS**

HONEYCOMB CO. OF AMERICA, INC.
1225 Connecticut Ave., Bridgeport, Conn. (Tel. EDison 4-3155)
Purch. Agent: Louis L. LaCroce
V. P.-Sales: F. J. Quinlan **GH, MM**

LUDWIG HONOLD MFG. CO.
Chester Pike & Folcroft Ave., Folcroft, Pa. (Tel. LUdlow 3-6800)
Purch. Agent: Robert Stabb
Jr. Buyer-Raw Materials: Roy Jackson
Jr. Buyer-Subcontract Parts: Elise Vanwhy
Exec. V. P.-Sales: Norman J. Burke **MF, GS, GH**

HOOF PRODUCTS CO.
6543 S. Laramie Ave., Chicago 38, Ill. (Tel. POrtsmouth 7-6330)
Purch. Agent: Ray Swoik
Dir.-Sales: Carl E. Vaughn **GS**

HOOSIER TARPAULIN & CANVAS GOODS CO., INC.
P. O. Box 574, Indianapolis 6, Ind. (Tel. MElrose 2-9451)
V. P.-Sales: Robert T. Goldberg **MM**

HOOVER ELECTRIC CO.
2100 S. Stoner Ave., Los Angeles 25, Calif. (Tel. GRanite 8-7747)
Dir.-Purch.: Lennart Rinne, 2041-2045 S. Barrington Ave., Los Angeles 25, Calif. (Tel. BRadshaw 2-3125)
Gen. Mgr.: Paul Cedwood **MF, WN, PS, GS, GH, GE**

HOOVER ELECTRONICS CO.
110 W. Timonium Rd., Timonium, Md. (Tel. VAlley 5-5200)
Purch. Agent: John W. Yewell
Sales Mgr.: Thomas B. Schillo **WN, PS, GS, GH, GE, TR**

HORIZONS INC.
2905 E. 79th St., Cleveland 4, Ohio (Tel. BRoadway 1-1600)
Dir.-Sales: Stuart S. Carlton **R&D**

HORKEY-MOORE ASSOCIATES
24660 S. Crenshaw Blvd., Torrance, Calif. (Tel. SPruce 5-1211)
Purch. Agent: Len Henrickson
V. P.-Dev. Planning: R. C. Chilton
Mgr.-Customer Relations: W. J. Glover **MF, GH, TS, R&D**

HOSKINS MFG. CO.
4445 Lawton Ave., Detroit 8, Mich. (Tel. TYler 5-2860)
Purch. Agent: R. J. Stefanac
V. P.-Mktg.: R. I. Cratch **MM**

***HOUDAILLE INDUSTRIES, INC., BUFFALO HYDRAULICS DIV.**
537 E. Delavan Ave., Buffalo, N. Y. (Tel. FIllmore 8000)
Purch. Agent: V. E. Lasker
Buyer: W. E. Thompson
Gen. Mgr. & Dir.-Sales: E. L. Spencer **MF, GH**
*(See Page 28 for Advertisement)

E. F. HOUGHTON & CO.
303 W. Lehigh Ave., Philadelphia 33, Pa. (Tel. RE 9-7100)
Dir.-Purch.: H. B. Fox
Purch. Agent: C. F. Kalmbach
V. P.-Sales: Frank Ross **GH, MM**

HOUGHTON LABORATORIES, INC.
322 Houghton Ave., Olean, N. Y. (Tel. 2-2176)
Purch. Agent: Tom Quinn
Field Sales Mgr.: J. M. Jewell **MM**

T. J. HOULIHAN CO.
2510 W. Lawrence St., Chicago 25, Ill. (Tel. LO 1-0580)
Dir.-Purch.: T. J. Houlihan **GS, GE, TS, TR**

HOUSTON FEARLESS CORP.
11801 W. Olympic Blvd., Los Angeles 64, Calif. (Tel. BRadshaw 2-4331)
Dir.-Prod. & Material: William Katona
Purch. Agent: F. J. Garcia
Sales Mgr.: A. J. Kjontvedt **PS, GS, GH, TR**

HOYT ELECTRICAL INSTRUMENT WORKS, BURTON ROGERS CO.
42 Carleton St., Cambridge 42, Mass. (Tel. ELliot 4-1643) **GE, CO, TS, TR, MM, R&D**

HUBER INDUSTRIES, INC.
4974 Hillside Ave., Cincinnati, Ohio (Tel. WIllow 1-1800)
Purch. Agent: K. P. Huber
Buyer: Russell R. Roeder, Jr.
Sales Mgr.: J. E. Huber **TS, TR, R&D**

HUCK MFG. CO.
2480 Bellevue Ave., Detroit 7, Mich. (Tel. WAlnut 1-6207)
Purch. Agent: Leland W. Fox
Order Dept. Mgr.: W. J. Westrick
V. P.-Sales: George Q. Mathews **MF, WN, PS**

HUDSON CUSHION CORP.
70-25 Cypress Hills St., Ridgewood 27, L. I., N. Y. (Tel. EVergreen 6-3593)
Sales Mgr.: E. Minor **R&D**

HUDSON LAMP CO.
528 Elm St., Kearny, N. J. (Tel. WYman 1-4834)
V. P.: Philip S. Rust **GS, TR**

HUDSON WIRE CO.
62 Walter St., Ossining, N. Y. (Tel. WIlson 1-8500)
Plant Mgr.-Ossining Div.: R. R. Thompson
Purch. Agent-Winsted Div.: E. O. Goodrow, Winsted, Conn. (Tel. FRontier 9-3341)
Gen. Sales Mgr.: William H. Elliott, Jr. **MF, PS, GS, TR**

HUFFORD CORP., THE
1700 E. Grand Ave., El Segundo, Calif. (Tel. ORegon 8-6221)
Purch. Agent: A. H. Knight
Buyers: Frank Frazee & Maurice Hagberg **GS, GH, CO, TS, MM, R&D**

HUGGINS LABS., INC.
999 E. Arques Ave., Sunnyvale, Calif. (Tel. RE 6-9330)
Purch. Agent: H. O. Harting
Sales Mgr.: V. D. Varenhorst

HUGHES AIRCRAFT CO.
Culver City, Calif. (Tel. TExas 0-7111)
Missile Mfg. Div.: P. O. Box 5555 Tucson, Ariz. (Tel. MAin 4-2711)

HUGHES PRODUCTS GROUP, HUGHES AIRCRAFT CO., SEMICONDUCTOR DIV.
International Airport Sta., Los Angeles 45, Calif. (Tel. ORchard 2-5011)
Sales Mgr.: H. K. Mann **GE**

HUGHES TOOL CO., AIRCRAFT DIV.
Florence & Teale Sts., Culver City, Calif. (Tel. TExas 0-7111)
Dir.-Materiel: Milton E. Taylor
Purch. Agent: C. H. Witter
Prod. Senior Buyer: C. E. Ingalls
Non-Prod. Senior Buyer: R. L. Jones
Experimental Procurement: H. L. Rodgers, Jr.
Dir.-Contracts Admin.: Fred C. Mehner
Senior Buyer, Dir.-Contracts Admin.: Fred C. Mehner **MF, PS, GS, GH, CO, R&D**

HUGHEY & PHILLIPS, INC.
3200 N. San Fernando Blvd., Burbank, Calif. (Tel. VIctoria 9-1104)
Purch. Agent: Larry K. Craddock
V. P. & Gen. Mgr.: J. H. Ganzenhuber **GS**

HULL CORP.
Hatboro, Pa. (Tel. OSborne 5-5000)
Chief Engr.-Vacuum: Karl Wiegman
Chief Engr.-Hydraulics: Jack Smith
V. P.-Sales: Frank Cramton

HUMAN SCIENCES RESEARCH, INC.
1408 N. Fillmore St., The Clarendon Bldg., Arlington 1, Va. (Tel. JAckson 4-3606)
V. P.: Dr. William A. Lybrand
Bus. Adminstr.: Mrs. Charlotte L. Brewer

HUMPHREY, INC.
2805 Canon St., San Diego 6, Calif. (Tel. ACademy 3-1654)
Purch. Agent: R. T. Rutherford
Chief Design Engr.: Donald G. Baker
V. P.-Sales Mgr.: John H. Bender **GE, TR**

PHILIP A HUNT CO.
Roosevelt Pl., Palisades Park, N. J. (Tel. WIndsor 4-4000)
Dir.-Adv.: R. A. Root

RODNEY HUNT MACHINE CO.
Orange, Mass. (Tel. KIngsdale 4-2511)
Purch. Agent: L. M. Phillips
Asst. Purch. Agent: J. F. H. Hart
V. P.-Sales & Mktg.: J. W. Rembe **MF**

HUNT CORP., THE
453 Lincoln St., Carlisle, Pa. (Tel. 1486)
Gen. Mgr.: Samuel Ryesky
Treas.: M. E. Cochrane
Sales Mgr.: Ronald Kearns **GS, GE, TR, R&D**

HUNTER MFG. CO.
30525 Aurora Rd., Solon, Ohio (Tel. CHurchill 8-6111)
Purch. Agent: J. C. Wolfe
Sales Mgr.: Warren A. Miller **GS, GH, GE, CO, TS, R&D**

HUNTER SPRING CO., DIV.-AMERICAN MACHINE & METALS, INC.
One Spring Ave., Lansdale, Pa. (Tel. Ulysses 5-6815)
Purch. Agent: Horace Machado
Sales Mgr.: G. D. Bennett **MF, PS, GS, CO, TS**

HUNTER TOOL CO.
9851 Alburtis Ave., Santa Fe Springs, Calif. (Tel. OX 2-7231)
Purch. Agent: V. L. Allison
V. P.-Sales: R. N. Hunter, Jr.

HUNTER-DOUGLAS ALUMINUM CORP.
3017 Kansas Ave., Riverside, Calif.

HUNTINGTON RUBBER MILLS
7100 S. W. Macadam Ave., Portland, Ore. (Tel. CHerry 4-7535)
Chief Purch. Agent: Mrs. Agnes Imel
Dir.-Sales: J. S. DuVal

HUPP AVIATION CO.
6633 W. 65th St., Chicago 38, Ill. (Tel. POrtsmouth 7-2100)
Purch. Mgr.: James Bovis
Gen. Sales Mgr.: John W. Painter **MF, WN, PS, GS, GE**

CODING

Missile Frame	MF
Warhead & Nose Cone	WN
Propulsion System	PS
Ground Support	GS
Ground Handling	GH
Guidance Equipment	GE
Checkout Equipment	CO
Test Equipment	TS
Tracking & Telemetering	TR
Research & Development	R&D
Materials & Metals	MM

HUPPERT, K. H., CO.
6830 Cottage Grove Ave., Chicago 37, Ill. (Tel. MIdway 3-4770)
Plant Mgr.: James Matias
Sales Mgr.: R. A. Hastings

HUSSMANN AIRCRAFT DIV.
819 E. Taylor Ave., St. Louis 15, Mo. (Tel. EVergreen 2-9660)
Purch. Agent: F. A. Biller
Supvsr.-Contracts Admin.: R. O. Lakin
Asst. Sales Mgr.: L. H. Daerr **MF, GS, GH, R&D**

HUTCHENS & SON METAL PRODUCTS, INC.
1355 S. S. S., Springfield, Mo. (Tel. UN 6-1979)
Purch. Agent: B. G. King
V. P.-Sales: Lewis G. Hutchens **MM, R&D**

WALTER J. HYATT CO., THE
P. O. Box 943, Beverly Hills, Calif. (Tel. BRadshaw 2-2844)
Sales: Walter J. Hyatt **MF, GS, GH, GE, TR, R&D**

HYATT BEARINGS DIV., GENERAL MOTORS CORP.
Harrison, N. J. (Tel. HUmboldt 4-4000)
Purch. Agent: L. V. Farrel
Sales Mgr.: J. R. Gilmartin

HYCON EASTERN INC.
75 Cambridge Pkwy., Cambridge 42, Mass. (Tel. UNiversity 4-7200)
Purch. Agent: W. Senior
V. P.-Operations-Sales: J. R. Martin
WN, GS, GE, CO, TS, TR

HYCON MFG. CO.
1030 S. Arroyo Pkwy., Pasadena, Calif. (Tel. SYcamore 9-4171)
Mgr.-Proc.: Al Curry
Mgr.-Customer Rel.: M. J. Leonard
Buyers: F. Sizinski, Chuck Schultz & Harold Held
GS, CO, TS, TR, R&D

HYDRA-POWER CORP.
10 Pine Court, New Rochelle, N. Y. (Tel. NE 2-2200)
Purch. Agent: J. Tranos
V. P.-Sales: E. D. Holland **GS, GE, TS, R&D**

HYDRAULIC PRESS MFG. CO., THE, DIV.-KOEHRING CO.
Marion Rd., Mt. Gilead, O. (Tel. 9351)
Dir.-Purch.: Carl A. Fisher
V. P.-Sales: E. L. Oehling **GS, GE**

HYDRO MOLDING CO. INC.
100 Sharron Ave., Plattsburgh, N. Y. (Tel. 2598)
V. P.-Purch.: M. A. Rabin **MF, PS, GS, GE, TR**

***HYDRO-AIRE CO., DIV.-CRANE CO.**
3000 Winona Ave., Burbank, Calif. (Tel. VIctoria 9-1331)
Purch. Agent: C. E. Lenox
V. P.-Sales & Engrg.: Frank Cooper
PS, GS, GH, GE, CO, TS, R&D

*(See Page 3 for Advertisement)

HYDRODYNE CORP., SKINNER SEAL DIV.
7350 Coldwater Canyon Ave., North Hollywood, Calif. (Tel. POplar 5-8001)
Purch. Agent: P. W. Wurtz
Pres.: Robert T. Skinner

HYDROMATICS, INC.
70 Okner Pkwy., Livingston, N. J. (Tel. WYman 2-4900)
Purch. Agent: Don Moran
Sales Mgr.: Joseph Perrin **PS, GS, GH, TS**

HYSTER CO.
2902 N. E. Clackamas St., Portland 8, Ore. (Tel. ATlantic 8-5011)
Dir.-Sales: J. A. Cairns **GH**

I. D. E. A., INC.
7900 Pendleton Pike, Indianapolis, Ind. (Tel. Liberty 7-3581)
Purch. Agent: R. E. Cox
Buyer: R. Weritt
Gen. Sales Mgr.: A. C. Elles **GS, GE, R&D**

ILG ELECTRIC VENTILATING CO.
2850 N. Pulaski Rd., Chicago 41, Ill. (Tel. KIldare 5-1520)
V. P. I/C Purch.: S. E. Heyerick
Exec. V. P.: J. J. Friedler, Jr. **GS, GH, TS**

I-L-S INSTRUMENT DIV., THE MERIAM INSTRUMENT CO.
4525 W. 160th St., Cleveland 35, O. (Tel. CLearwater 2-3850)
Purch. Agent: M. E. Saltsgaver
Sales & Gen. Mgr.: R. B. Laule **GS, CO, TS**

I-T-E CIRCUIT BREAKER CO.
601 E. Erie Ave., Phila. 34, Pa. (Tel. GArfield 6-5700)
Purch. Agent: W. Manning **TR**

ITT FEDERAL DIV., INTERNATIONAL TELEPHONE & TELEGRAPH CORP.
100 Kingsland Rd., Clifton, N. J. (Tel. NUtley 2-3600)
Purch. Mgr.: H. P. Sommerer
V. P.-Sales: T. M. Douglas **GS, GE, CO, TR, R&D**

ITT LABS.
500 Washington Ave., Nutley, N. J. (Tel. NOrth 1-1100)
Dir.-Purch.: L. C. Mercier
Dir.-Sales: J. A. Haber
WN, GS, GH, GE, CO, TS, TR, R&D

ITT LABS., FORT WAYNE
3702 Pontiac St., Fort Wayne, Ind. (Tel. E 7571)
Mgr.-Purch.: Walter Pitts **R&D**

ITT-KELLOGG
6650 South Cicero Ave., Chicago 38, Ill. (Tel. PO 7-6900)
Dir.-Purch.: H. O. Nordberg
V. P. & Gen. Sales Mgr.: O. C. Bailey
GS, CO, TS, TR, R&D

IDEAL-AEROSMITH, INC.
3913 Evans Ave., Cheyenne, Wyo. (Tel. 7-7715)
Purch. Agent: F. E. Wheelhouse
Sales Mgr.: Neil Royce **PS, GS, GH, GE, CO, TS**

IDEAL INDUSTRIES, INC.
1427 Park Ave., Sycamore, Ill. (Tel. 2114)
Purch. Agent: Robert D. Voss
Buyer: E. W. Whitaker
Gen. Sales Mgr.: Gordon B. Koch **GE, TS, TR**

IDEAL PRECISION METER CO., INC.
126 Greenpoint Ave., Brooklyn 22, N. y. (Tel. EVergreen 3-6904)
V. P.: Charles Bernstein
Pres.: Harry Leiderman

ILLINOIS CONDENSER CO.
1616 N. Throop St., Chicago, Ill. (Tel. EV 4-1300)
Purch. Agent: Ted Senelick
Sales Mgr.: L. W. Coleman **TR**

ILLINOIS TESTING LABORATORIES, INC.
420 N. LaSalle St., Chicago 10, Ill. (Tel. WHitehall 3-1331)
Purch. Agent: J. M. Lajka
V. P.-Sales: M. J. Rauscher **MF, PS, CO, TS**

ILLINOIS ZINC CO.
2959 W. 47th St., Chicago 32, Ill. (Tel. LAfayette 3-1600)
V. P.-Purch.: L. F. Johnson
V. P.-Sales: W. F. Synnott **MF, PS**

ILLUMITRONIC ENGRG. CO.
680 E. Taylor, Sunnyvale, Calif. (Tel. REgent 9-2395)
Purch.: Wm. W. Smith
Sales Mgr.: Joe D. Giulie **MF, PS, GS, GH, GE, TR**

IMPACT-O-GRAPH CORP., THE
1900 Euclid Ave., Cleveland, O. (Tel. CHerry 1-5838)
Pres.: W. S. Mielziner **PS, TS**

IMPERIAL BRASS MFG. CO., THE
6300 W. Howard St., Chicago 31, Ill. (Tel. SPring 4-1700)
Purch. Agent: W. B. Burnet
V. P.-Sales Mgr., Distributor Div.: C. H. Benson
V. P.-Sales Mgr., O.E.M. Div.: J. T. Greenlee
MF, PS, GS, GE, TS

IMTRA CORP.
11 University Rd., Cambridge 38, Mass. (Tel. UN 4-4350)
Pres.-Sales: William H. Farnham

INDIANA STEEL PRODUCTS CO., THE
Valparaiso, Ind. (Tel. Valparaiso 2-5601)
Purch. Agent: W. F. Eckert
V. P.: I. A. Dickey **MM**

INDIKON CO., INC., THE
76 Coolidge Hill Rd., Watertown 72, Mass. (Tel. WAtertown 4-2198)
Purch. Agent: Warren Robertson
Sales Mgr.: Haskell Ginns **TS**

INDIUM CORP. OF AMERICA, THE
1676 Lincoln Ave., Utica, N. Y. (Tel. SWift 7-1630)
V. P.-Sales: J. R. Dyer, Jr. **MM**

INDUCTION HEATING CORP.
181 Wythe Ave., Brooklyn 11, N. Y. (Tel. EVergreen 4-3110)
Dir.-Purch.: Arthur J. Slobin
Sales: Thomas J. Stanton **PS, GS, GH, GE**

INDUCTION MOTORS CORP.
570 Main St., Westbury, L. I., N. Y. (Tel. EDgewood 4-7070)
V. P.-Purch.: J. Wohryzek
Purch. Agent: M. Cuffori **TR, R&D**

INDUSTRIAL ACOUSTICS CO., INC.
341 Jackson Ave., New York, N. Y. (Tel. CY 2-0180)
Purch. Agent: Les Braverman
Buyers: Albert Dembiyer, James Forester, C. Spitalnic
V. P.-Sales: S. M. Potter, A. C. Hawthorne
MM, R&D

INDUSTRIAL CONTROL CO.
805 Albin Ave., Lindenhurst, L. I., N. Y. (Tel. MOhawk 1-6060) **PS, GE, CO, TS, TR**

INDUSTRIAL DEVELOPMENT LABS., INC.
982 River Road, Edgewater, N. J. (Tel. WHitney 3-4084)
Purch. Agent: George E. Mesnick
Sales Mgr.: N. J. Seiden **R&D**

INDUSTRIAL ELECTRICAL WORKS, INC.
1509 Chicago St., Omaha, Neb. (Tel. ATlantic 4600)
Purch. & Sales Mgr., Reel Div.: J. C. Costello
GS, GH, CO, TS

INDUSTRIAL ENGRG. CORP.
525 East Woodbine, Louisville 8, Ky. (Tel. MElrose 4-3601)
Project Engr.: Floyd B. Simpson
Pres.: John Davenport **GS, TS**

INDUSTRIAL ENGRAVERS INC.
2212 McDonald Ave., Brooklyn 23, N. Y. (Tel. HIckory 9-3200)
Pres.: J. Zatzkin **MF, WN, PS, GE, CO, TS, TR**

INDUSTRIAL INSTRUMENTS INC.
89 Commerce Rd., Cedar Grove, N. J. (Tel. CEnter 9-6200)
Purch. Agent: H. Steinfeld
Sales Mgr.: J. H. Williamson **TS**

INDUSTRIAL METAL PROTECTIVES, INC.
401 Homestead Ave., Dayton 8, Ohio (Tel. BAldwin 2-6747)
V. P.-Engrg.: F. R. Fisher, Jr. **MM**

INDSL. PROD.-DANBURY KNUDSEN DIV.-AMPHENOL-BORG ELECTRONICS CORP.
Danbury, Conn. (Tel. Pioneer 3-9271)
Mgr.-Prod. Control: Albert A. Marvin
Buyers: Walter Loesch, Theodore Davis
Sales Mgr.: Norman Cresci **WN, GE, CO, TS, TR**

INDUSTRIAL RETAINING RING CO.
57 Cordier St., Irvington, N. J. (Tel. WAverly 6-5000)
Purch. Agent: V. A. Stabile **MF, PS**

INDUSTRIAL TECTONICS, INC.
3686 Jackson Ave., Ann Arbor, Mich. (Tel. NOrmandy 3-2451)
Dir.-Purch.: H. Fleischman
Sales Mgr.: K. W. McKenzie
MF, PS, GS, GH, GE, TS, TR, R&D

INDUSTRIAL TELEVISION INC.
369 Lexington Ave., Clifton, N. J. (Tel. GRegory 3-0900)
Purch. Agent: Joseph Weinberg
Sales Mgr.: Robert J. Harrington **GS, GE, CO, TS**

INDUSTRIAL TEST EQUIPMENT CO.
55 E. 11th St., New York, N. Y. (Tel. GR 3-4684)
Purch. Agent: Walter Meyer
Sales Mgr.: Melvin Schreibman **GS**

INDUSTRIAL TIMER CORP.
1407 McCarter Hwy., Newark, N. J. (Tel. HUmbolt 4-5600)
Purch. Agent: J. M. Ravelle
Sales Mgr.: R. A. Rossney **GS, CO, TS**

INDUSTRIAL TOOLS MFG. CORP., SUB.-PENDLETON TOOL INDUSTRIES, INC.
8150 Marbrisa Ave., Huntington Pk., Calif. (Tel. LUdlow 3-4301)
Purch. Agent: H. O. Gross
Sales Engr.: G. M. Fishering
Sales Engr.: S. K. Simpson
Sales Mgr.: H. D. Norton **GS, GH**

INDUSTRIAL TRANSFORMER CORP.
Gouldsboro, Penna. (Tel. VI 2-2111)
Purch. Agent: A. Kelly
Sales Mgr.: S. Lundy **GE**

INDUSTRIAL WINDING MACHINERY CORP.
Suite 3410, 120 Wall St., New York 5, N. Y. (Tel. WHitehall 3-1754)
Dir.-Purch.: R. Harvst
Dir.-Sales: H. W. Roehrig

INDUSTRO TRANSISTOR CORP.
35-10 36th Ave., Long Island City 6, N. Y. (Tel. EXeter 2-8000)
V. P.-Sales: Archie MacDougal
Sales Mgr.: Seymour Ostfeld **GE, R&D**

INERTIA SWITCH DIV., SAFE LIGHTING INC.
527 Lexington Ave., New York 17, N. Y. (Tel. PLaza 5-1583)
Purch. Agent: Donald C. Wilson
Sales: Dana A. Griffin

INERTIA SWITCH, INC.
311 West 43rd St., New York 36, N. Y. (Tel. JUdson 6-5880)
Purch. Agent: John A. M. Peck
Sales Mgr.: Eugene Mogul
WN, GH, GE, CO, TS, TR, R&D

INFRARED INDUSTRIES, INC.
62 Fourth Ave., Waltham 54, Mass. (Tel. TWinbrook 3-5400)
Gen. Sales Mgr.: E. D. Reddan **GE, TS**

INGERSOLL KALAMAZOO DIV., BORG-WARNER CORP.
1810 N. Pitcher St., Kalamazoo, Mich. (Tel. FIreside 5-3501)
Dir.-Proc.: Harry E. Morse, 760 E. Vine St., Kalamazoo, Mich. (Tel. FIreside 2-0136)
Purch. Agents: L. A. Potratz & E. M. Anderson, 760 E. Vine St.
Buyers: E. J. Ries & L. D. Payne, 760 E. Vine St.
V. P. & Dir.-Defense Sales: A. S. Mrozek

INGRAHAM CO., THE
392 North Main St., Bristol, Conn. (Tel. LUdlow 2-6321)
Purch. Agent: B. I. Downs
Asst.-Purch. Agent: W. Preston
V. P.-Sales: Allen W. Rork **WN, GE**

INLAND ELECTRONICS CORP.
500 Rathbone Ave., Aurora, Ill. (Tel. 6-7744)
V. P.-Prod.: J. J. Pfeiffer
Materials Dept.: R. Juneau
Dir.-Sales: E. A. Thompson **CO, TS**

INSCO CO., DIV.-BARRY CONTROLS INC.
Hollis St., Groton, Mass. (Tel. GIlbert 8-6358)
Gen. Mgr.: David L. Ammen **PS, GS, TS**

INSTRU-LEC CORP.
520 Homestead Ave., Mt. Vernon, N. Y. (Tel. MOunt Vernon 8-3754)
Pres.: Russell Hobert **GE**

INSTRUMENT CORP. OF FLA.
P. O. Box 1226, Melbourne, Fla. (Tel. PArkway 3-8112)
Buyer: A. D. Ashley
Contract Adm.: Charles W. Cairnes **TR, R&D**

INSTRUMENT DEVELOPMENT LABS., INC.
67 Mechanic St., Attleboro, Mass. (Tel. Attleboro 1-3880)
Purch. Agent: William Pendergast
Buyer: Robert Comstock
Gen. Sales Mgr.: George P. Bentley
GE, TS, TR, R&D

INSTRUMENT LABS.
315 W. Walton Place, Chicago 10, Ill. (Tel. MIchigan 2-0123)
Dir.-Purch.: John R. Fouser
Dir.-Sales: H. Taylor **TS, R&D**

INSTRUMENT MOTORS
375 Colt St., Irvington, N. J. (Tel. ESsex 4-9880)
Plant Supt.: Anthony Gaus
Sales Mgr.: D. Winston **PS, GS, GE, TS, TR**

INSTRUMENT RESISTORS CO.
1036 Commerce Ave., Union, N. J. (Tel. MUrdock 6-4363)
Office Mgr.: P. Bargerstock
Plant Mgr.: Howard G. Melick

INSTRUMENTATION DIV.-AMPEX CORP.
934 Charter St., Redwood City, Calif. (Tel. EMerson 9-1481)
Purch. Agent: Frank C. Masi
Sr. Buyers: Harold Nelsen, R. Glenn Zieber, William C. Haack
Mktg. Mgr.: Paul Weber **WN, GS, CO, TS, TR, R&D**

INSTRUMENTS CORP., THE
Central Ave., Baltimore 2, Md. (Tel. DIckens 2-2626)
Purch. Agent: Ed. Morton
Sales Mgr.: A. E. Clark, Jr.
PS, GS, GE, CO, TS, TR

INSTRUMENTS DIV.-PHILIPS ELECTRONICS, INC.
750 S. Fulton Ave., Mt. Vernon, N. Y. (Tel. MO 4-4500)
Purch. Agent: Jack Hemphill
Sales Mgr.: C. J. Woods **TS, R&D**

INSTRUMENTS FOR INDUSTRY, INC.
101 New South Rd., Hicksville, N. Y. (Tel. OVerbrook 1-7100)
Purch. Agent: John T. Daley
V. P.-Sales: Robert C. Lockwood **R&D**

INTEGRAL CORP.
100 Frank Road, Hicksville L. I., N. Y. (Tel. WElls 1-4099)
V. P.-Purch.: H. Gittleson
V. P.-Sales: J. Kendall **MF, WN, PS, GS, GH, TS**

INTEGRATED MICA CORP.
202 Franklin Place, Woodmere, L. I., New York (Tel. FRanklin 4-2350)
Purch. Agent: Moses D. Heyman **MM, R&D**

INTERCONTINENTAL DYNAMICS CORP.
170 Coolidge Ave., Englewood, N. J. (Tel. LOwell 7-3600)
Purch. Agent: Harold White
Sales Mgr.: F. M. Winnai **GS, GE, TS, R&D**

INTERCONTINENTAL MFG. CO., INC.
Amundsen Road, P. O. Box 578, Garland, Texas (Tel. BRoadway 6-5131)
Dir.-Purch.: L. D. Bamhill
Mgr., Contract Admin.: R. E. Tarpley
MF, WN, PS, GH, MM, R&D

INTERELECTRONICS CORP.
2432 Grand Concourse St., New York 58, N. Y. (Tel. LUdlow 4-6200)
Purch. Agent: M. L. Lewis
Sales Mgr.: M. H. Pintell
PS, GS, GH, GE, CO, TS, TR

INTERFERENCE MEASUREMENT LABORATORY, INC.
907 E. 51st St., Brooklyn 3, N. Y. (Tel. INgersoll 9-1765)
Purch. Agent: E. N. Sands **GE, TS, R&D**

INTERLAKE STAMPING CORP.
12415 Euclid Ave., Cleveland 6, Ohio (Tel. SWeetbriar 1-7101)
Pres.: Wayne Groenstein **MF**

INTERNATIONAL AEROCOUSTICS CORP.
341 Jackson Ave., New York 54, N. Y. (Tel. CYpress 2-0180)
Purch. Agent: Les Braverman
Buyers: C. Spitalnic, B. Horowitz, A. De Angelis
Sales: M. Hirschorn **PS, GS, GH, TS**

INTERNATIONAL BALSA CORP.
86 Boyd Ave., Jersey City 4, N. J. (Tel. HEnderson 4-2044)
V. P.-Purch.: Samuel Greenhouse
Exec. V. P.-Sales: Prem Gary **MM**

INTERNATIONAL BUSINESS MACHINES CORP.-MILITARY PRODUCTS DIV.
590 Madison Ave., New York 22, N. Y. (Tel. PLaza 3-1900)

INTERNATIONAL ELECTRIC INDUSTRIES, INC.
468 Grand Ave., Brooklyn 38, N. Y. (Tel. NEvins 8-0211)
Purch. Agent: William Auslander
Chief Engr.-Purch.: John H. Tanges, Jr.
Sales Mgr.: Leo Margold
MF, PS, GS, GH, GE, CO, TS, TR

INTERNATIONAL ELECTRONIC INDUSTRIES, INC.
Corner Berry & Fessey Roads (P. O. Box 1368) Nashville, Tennessee (Tel. CYpress 8-4411)
Purch. Agent: W. W. Dick
National Sales Mgr.: A. M. Rowley **MM**

INTERNATIONAL ELECTRONIC RESEARCH CORP.
145 W. Magnolia Blvd., Burbank, Calif. (Tel. VIctoria 9-2481)
Purch. Agent: Philip Solomon
Exec. V. P. & Sales Mgr.: John E. Markley, Jr.
PS, GE, TS

INTERNATIONAL EQUIPMENT CO.
1284 Soldiers Field Rd., Boston, Mass. (Tel. STadium 2-7900)
Purch. Agent: Walter Morrison
V. P.-Sales: R. W. Schmader **TS**

INTERNATIONAL FERMONT MACHINERY CO., INC.
Ramapo, N. Y. (Tel. SLoatsburg 3-2791)
Purch. Dir.: M. Breen
V. P.-Purch.: D. Rohr
Dir.-Sales: C. Sugarman **GS**

INTERNATIONAL INSTRUMENTS INC.
Box 2954, New Haven 15, Conn. (Tel. FUlton 7-2515)
Sales Mgr.: R. C. Livingston

INTERNATIONAL NICKEL CO., THE
67 Wall St., New York 5, N. Y. (Tel. WHitehall 4-1000)
V. P.-Sales: J. A. Marsh **MM**

INTERNATIONAL PUMP & MACHINE WORKS
81 Dorsa Ave., Livingston, N. J. (Tel. WYman 2-5900)
Pres.: T. J. Scala
Purch.: M. D. Warchol
Ch. Engr.: F. E. Roth **GS, GH, R&D**

INTERNATIONAL RADIANT CORP.
111 New York Ave., Westbury, N. Y. (Tel. EDgewood 4-8820)
Mfg. Mgr.: P. Stanger
Purch. Agent: Mrs. K. LaGrega
Sales Mgr.: Karl D. Klein **TS, MM**

INTERNATIONAL RECTIFIER CORP.
1521 E. Grand Ave., El Segundo, Calif. (Tel. ORegon 8-6281)
Dir.-Purch.: Claire Behar
Purch. Agent: Larry Dudley
V. P.-Sales: J. T. Cataldo **MM**

INTERNATIONAL REGISTER CO.
2620 W. Washington Blvd., Chicago 12, Ill. (Tel. VA 6-4242)
Dir.-Purch.: H. H. Shellberg
Gen. Sales Mgr.: H. H. Rosenheim

INTERNATIONAL RESEARCH ASSOCIATES
2221 Warwick Ave., Santa Monica, Calif. (Tel. TExas 0-4415)
Pres.: L. E. Brown
Purch.: T. Reynolds **GS, GE, CO, TS, R&D**

INTERNATIONAL RESEARCH & DEVELOPMENT CORP.
P. O. Box 55, 6150 Huntley Rd., Worthington, Ohio (Tel. TU 5-5376)
V. P.-Engrg.: T. Ongaro
Sr. Engineers: G. H. Thomas & Paul Ryan
Sales Mgr.: D. L. Bernhard **GS, TS**

INTERNATIONAL RESISTANCE CO.
401 N. Broad St., Philadelphia 8, Pa. (Tel. WAlnut 2-2166)
Mgr.-Purch.: Henry Zaccaria
Buyers: Irene Smith & John H. Cummings
Dir.-Sales: George D. Butler **TS, MM, R&D**

INTERNATIONAL WAX REFINING CO.
99 E. Hawthorne Ave., Valley Stream, N. Y. (Tel. LOcust 1-2500)
Purch.: Frank W. Clarke **MF, WN, PS**

INTERNATIONAL WIRE & CABLE CO.
1665 N. Milwaukee Ave., Chicago, Ill. (Tel. BR 8-2362)
Sales Mgr.: Sidney Gracen

INTERSTATE ELECTRONICS CORP.
707 E. Vermont Ave., Anaheim, Calif. (Tel. PRospect 4-6540)
Purch. Agent: Hugh F. Maguire
Mgr., Engrg. Liaison: John P. Hastings
PS, GS, CO, TR

INTERSTATE ENGRG. CORP.
600 East Vermont Ave., Anaheim, Calif. (Tel. PRospect 4-6540)
Prod. Mgr.: G. McMaster
Buyers: R. Basting, M. Hodkin, P. Rutledge
Dir.-Sales & Contracts: E. Ed Williams
MF, GS, GH, TS, R&D

INTERSTATE MFG. CORP., THE
190 Boston Post Rd., Orange, Conn. (Tel. SYcamore 9-2339)
V. P.-Purch.: L. J. Paffumi
Pres.: A. A. Espari **MF, WN, PS, GS, GH, GE, R&D**

INVESTMENT CASTING CO.
60 Brown Ave., Springfield, N. J. (Tel. DRexel 6-6260)
Purch. Agent: Edwin Schoffman
Sales Mgr.: E. H. Parris **MF, PS**

INVINCIBLE VACUUM CLEANER MFG. CO.
14th & Davis Streets, Dover, Ohio. (Tel. 42191)
Purch. Agent: Charles Wenger
Dir.-Sales: L. M. Thomas

IRON FIREMAN MFG. CO., ELECTRONICS DIV.
2838 S. E. 9th Ave., Portland 2, Ore. (Tel. BElmont 4-6551)
Purch. Agent: A. D. Rolfe
Asst. Purch. Agent: Harold Walker
Mil. Sales Coordinator: Henry Des Georges
GS, GH, GE, CO

ISOLANTITE MFG. CORP.
175 Warren Ave., Stirling, N. J. (Tel. MIllington 7-0385)
Pres. & Dir.-Sales: Frank J. Stevens **MM**

ITEK CORP.
1566 Trapelo Road, Waltham, Mass. (Tel. TWinbrook 3-8700)

CODING

Missile Frame	MF
Warhead & Nose Cone	WN
Propulsion System	PS
Ground Support	GS
Ground Handling	GH
Guidance Equipment	GE
Checkout Equipment	CO
Test Equipment	TS
Tracking & Telemetering	TR
Research & Development	R&D
Materials & Metals	MM

Purch. Agent: J. J. Kistner
Prod. Sales Mgr.: B. J. Warren GS, CO, R&D

ITEMCO, INC.
4 Manhasset Ave., Port Washington, N. Y. (Tel. POrt Washington 7-8330)
Purch. Agent: Julius Rosen
Sales Mgr.: Albert J. Deeb

JEM ELECTRONICS CORP.
743 Circle Ave., Forest Park, Ill. (Tel. PResident 1-8242)
Purch. Agent: C. F. Amberg TS

JFD ELECTRONICS CORP.
1462 62nd St., Brooklyn, N. Y. (Tel. DEwey 1-1000)
Mgr.-Purch. & Sales: Jack Goodman GS, GE, CO, TS, TR, R&D

J-V-M MICROWAVE CO.
9300 W. 47th St., Brookfield, Ill. (Tel. HUnter 5-2000)
Buyer: L. Rzeminski
Sales Mgr.: E. J. Jurcy

JACK & HEINTZ, INC.
17600 Broadway, Maple Heights, O.
Mailing: Cleveland 1, O. (Tel. MOntrose 2-1000)
Purch. Agent: Hugh W. Lloyd
V. P.-Sales: R. J. Eschborn
V. P.-Operations: C. F. Herbold GS, GH, TS, R&D

JACOBSON NUT MFG. CORP.
Box 177, Kenilworth, N. J. (Tel. MUrdock 6-0200)
Purch. Agent: Joe Marone
Sales Mgr.: C. W. Aagaard MF, PS

JAIDINGER MFG. CO., INC.
1921 W. Hubbard St., Chicago 22, Ill. (Tel. HA 1-1090)
Purch. Agent: Robert Krajei
Chief Engr.: William Krieg
Sales: J. H. Jaidinger GS, GH, CO

JALBERT AEROLOGY LAB.
40 N. W. 20th St., P. O. Box 155, Boca Raton, Fla. (Tel. 9094)
Dir.-Purch.: Domina C. Jalbert

•

JAMES, POND & CLARK, INC.
2181 E. Foothill Blvd., Pasadena, Calif. (Tel. SYcamore 3-9195)
Purch. Agent: William Olsen
Sales Mgr.: P. F. Shepherd MF, WN, PS, GS, GH, CO, TS

JAMESBURY CORP.
45 New St., Worcester, Mass. (Tel. SWift 9-4166)
Treas.-Purch.: Saul I. Reck
Sales: Julian S. Freeman PS

JAMISON COLD STORAGE DOOR CO.
Box 70, Hagerstown, Md. (Tel. RE 3-3100)
Gen. Sales Mgr.: P. J. Duffy

JAN HARDWARE MFG. CO., INC.
38-01 Queens Blvd., Long Island City 1, N. Y. (Tel. EMpire 1-0800)
Chief Purch. Agent: M. Weiss
Dir.-Sales & Gen. Mgr.: Arthur Z. Rowe GS, CO, TS, MM, R&D

JANCO CORP.
3111 Winona Ave., Burbank, Calif. (Tel. THornwall 8-5792)
Purch. Agent: Lester Jones
V. P.-Sales: J. T. Peterson, Jr. GS, GE, CO, TS, TR

***JANITROL AIRCRAFT DIV., SURFACE COMBUSTION CORP.**
4200 Surface Rd., Columbus 4, Ohio (Tel. BRoadway 6-3561)
Dir.-Proc.: R. H. Rupp
Buyers: John Huntley, Jerry Roberts, William Higgins
Gen. Sales Mgr.: J. W. Ashby GS, GH, MM, R&D
*(See Page 54 for Advertisement)

JANSKY & BAILEY, INC.
1339 Wisconsin Ave., Washington 7, D. C. (Tel. FEderal 3-4800)
Purch. Agent: M. Bell
V. P.-Sales: D. C. Ports CO, TS, TR, R&D

JARDUR AVIATION CO.
874 Broadway, New York 3, N. Y. (Tel. ALgonquin 4-2238)
Dir.-Purch.: Samuel Klepper
Dir.-Sales: Herman H. Klepper

JARDUR IMPORT CO.
874 Broadway, New York 3, N. Y. (Tel. ALgonquin 4-2239)
Dir.-Purch.: Samuel Klepper
Dir.-Sales: Herman H. Klepper

JARRELL-ASH CO.
26 Farwell St., Newtonville 60, Mass. (Tel. DEcatur 2-2130)
Purch. Agent: W. Jokinen TS

JARVIS CORP.
10 Glastonbury Tpke., Portland, Conn. (Tel. DIamond 7-3381)
Purch. Agent: John Harvey
Gen. Mgr.: Edward G. Sharp
Asst. to Gen. Mgr.: S. Peter Barry MF, WN, PS, MM

JAVELIN AIRCRAFT CO. INC.
1405 S. Oliver, Wichita 17, Kans. (Tel. MU 2-0111)
Pres. & Chief Engr.: D. D. Blanton MF, GS, GH

JAVEX ELECTRONICS
P. O. Box 646, Redlands, Calif. (Tel. PYramid 3-5752)
V. P.-Sales: C. J. Reimuller

JEFFERSON ELECTRONIC PRODUCTS CORP.
322 State St., Santa Barbara, Calif. (Tel. WOodland 5-8505)
Purch. Agent: William Bedford
Sr. Buyer: Frank E. Brackett
Mgr., Customer Relations Div.: Donald F. Barr GS, CO, TS, TR, R&D

JEFFERSON WIRE & CABLE CORP.
Pleasant Valley Rd., Sutton, Mass. (Tel. Union 5-4447)
Gen. Mgr.: Michael Friedman R&D

JEFFREY MFG. CO., THE
843 N. 4th St., Columbus 16, Ohio (Tel. AX 4-3331)
Dir.-Purch.: H. J. Halliday
V. P.-Sales: J. E. M. Wilson

JENNINGS MACHINE CORP.
3452 Ludlow St., Philadelphia 4, Pa. (Tel. EV 6-2420)
Purch. Agent: J. P. McIntyre
Sales Engr.: J. Robert Peace MM

JENNINGS RADIO MFG. CORP.
970 McLaughlin Ave., San Jose, Calif. (Tel. CYpress 2-4025)
Purch. Agent: Howard A. Coon
V. P.-Sales: Calvin K. Townsend GE, TS, TR

JENSEN MFG. CO.
6601 S. Laramie Ave., Chicago 38, Ill. (Tel. POrtsmouth 7-7600)
Purch. Agent: Edmund B. McGuckin
Indsl. Sales Mgr.: Horace L. White
Asst. Sales Mgr., Distributor Div.: Frank D. Lintern GH, CO, TS

JERGUSON GAGE & VALVE CO.
Adams St., Burlington, Mass. (Tel. BRowning 2-3600)
Purch. Agent: H. M. Rixon
V. P.-Sales: James A. Ford

JESSALL PLASTICS
900 Farmington Ave., Kensington, Conn. (Tel. New Britain, VAlley 8-3526)
Purch. Agent: J. B. Smith
Sales Mgr.: E. J. McDonald MM

JET ELECTRONICS CORP.
4426 San Fernando Rd., Glendale 4, Calif. (Tel. CItrus 1-2689)
Purch. Agent: E. A. Braga
Sales Mgr.: Jaime Balugo TR

JET TOOL CORP.
7952 North Ave., Lemon Grove, Calif. (Tel. HOpkins 6-0471)
Pres.: Grant Hadley MF, WN, PS, GS

JETA, INC.
957 Saw Mill River Rd., Yonkers 2, N. Y. (Tel. Yonkers 9-4400)
Dir.-Purch.: D. Lavker
Purch. Agent: L. Balletto
Comm. Sales Mgr.: R. Calhoun GS, GH, MM

JET-HEET, INC.
152 S. Van Brunt St., Englewood, N. J. (Tel. LOwell 9-0420)
Purch. Agent: P. M. Joachim
Sales Engr.: J. J. Diekmann
Pres.: C. D. MacCraken R&D

JETTRON PRODUCTS, INC.
56 Route 10, P. O. Box 274, Hanover, N. J. (Tel. TUcker 7-0571)
Pres.: Kenneth Johnson
V. P.: Carlton P. Werner
Elec. Engr.: Frank J. Strassner R&D

JOCLIN MFG. CO., THE
Lufbery Ave., Wallingford, Conn. (Tel. COlony 9-8708)
Purch. Agent: S. F. DiGiorgi
Sales Mgr.: David R. Lurie WN, PS, MM

JODEE PLASTICS CO.
36 Crescent St., Brooklyn 8, N. Y. (Tel. AP 7-4774)
Pres.: Nicholas Meglino
Purch. Agent: Mrs. Josephine Meglino

JOHNS-MANVILLE
22 E. 40th St., New York 16, N. Y. (Tel. LExington 2-7600)
Mgr.-Purch. Dept.: D. H. Lyons
Gen. Sales Mgr., Equipment: E. D. Flavin MM

JOHNS-MANVILLE SALES CORP.
22 E. 40th St., New York 16, N. Y. (Tel. LExington 2-7600)
Dir.-Purch.: D. H. Lyons
V. P.-Sales: J. A. O'Brien MF, WN, PS, GS, MM, R&D

E. F. JOHNSON CO.
206 2nd Ave., S. W. Waseca, Minn. (Tel. 990)
Purch. Agent: M. L. Johnson
Gen. Sales Mgr.: E. T. Herbig MM

K. W. JOHNSON & CO., INC.
1825 Webster St., Dayton, O. (Tel. BA 4-1078)
Dir.-Purch.: Richard M. Wilcox
Sales Mgr.: R. D. Tobey MF, GS, GH, TS, R&D

JOHNSON ELECTRONICS INC.
P. O. Box 1675, Casselberry, Fla. (Tel. MIdway 4-3311)
Purch. Agent: Merlin Baudino
Sales Mgr.: E. S. Johnson GS, R&D

JOHNSON MFG. CO., INC.
616 First Ave., N., Mt. Vernon, Iowa (Tel. 3651)
Mgr.-Sales: R. H. Thompson
Asst. Mgr.-Sales: D. F. Jones MM

JOHNSON-WILLIAMS, INC.
2625 Park Blvd., Palo Alto, Calif. (Tel. DAvenport 3-4131)
Mgr.: P. L. Williams
Chief Engr.: K. W. Johnson GS, CO, TS

JOHNSTON & FUNK TITANIUM CORP.
Kemrow Ave., Wooster, O. (Tel. HOward 2-7050)
Purch. Agent: Don Good
Sales Coordinator: Robert Knight MF, PS

HERRICK L. JOHNSTON, INC.
659 Marion Rd., Columbus 7, Ohio (Tel. KIckory 3-7434)
Purch. Agent: John W. Dalgarn
Dir.-Mfg.: G. A. Wright MF, PS, GS, GH, TS

JO-LINE TOOLS, INC.
8442 Otis St., South Gate, Calif. (Tel. LOrain 7-1489)
Prod. Mgr.: R. Glen Woods
V. P.-Sales: William S. Woods GS

JOMA INC.
Town Line Rd., Wolcott, Conn. (Tel. PLaza 7-0040)
Pres.: Joseph M. Macary MM

HOWARD B. JONES DIV.-CINCH MFG. CORP.
1026 S. Homan Ave., Chicago 24, Ill. (Tel. NEvada 2-2000)
Purch. Agent: Tom Hopkins
Sales Mgr.: C. W. Nelson GS, GH, GE, TR

JONES & LAMSON MACHINE CO.
160 Rocket St., Springfield, Vt. (Tel. TUrner 5-2121)
Purch. Agent: E. F. St. Mary
Asst. Purch. Agent: Frank Barter
Mgr.-Marketing: H. A. Finch MF, WN, PS, GS, GH, TS, TR

JONES & LAUGHLIN STEEL CORP., STAINLESS & STRIP DIV.
Box 4606, Detroit 34, Mich. (Tel. JE 6-7200) MM

JONESVILLE PAPER TUBE CORP.
474 Beck Rd., Jonesville, Mich. (Tel. VI 9-7141)
Dir.-Purch.: A. G. Schaerer
Dir.-Sales: W. W. Schray MM

JORDAN CO., INC., THE
3235 W. Hampton Ave., Milwaukee, Wisc. (Tel. UPtown 1-3200)
Purch. Agent: Ethel Janke
Acting Sales Mgr.: Arthur Scammell GS

JORDAN ELECTRONICS, DIV.-VICTOREEN INSTRUMENT CO.
3025 W. Mission Rd., Alhambra, Calif. (Tel. CUmberland 3-6425)
Purch. Agent: Louis Kroot
Sales Mgr.: George W. Egan GS, GE, CO, TR, R&D

EARLE M. JORGENSEN CO.
10650 S. Alameda St., Los Angeles 54, Calif. (Tel. LOrain 7-1122)
Mdse. Mgr.: W. R. Lindman
Mgr.-Sales: Charles Schriber MM

JOY MFG. CO.
Henry W. Oliver Bldg., Pittsburgh 22, Pa. (Tel. GRant 1-2140)

Dir.-Purch.: K. Warmbein
V. P., Ind. Div.: J. P. Cartwright **GS**

JUALL GEAR CO., INC.
1108 Goffle Rd., Hawthorne, N. J. (Tel. HA 7-4220)
Pres.: C. Juall

JULIE RESEARCH LABS., INC.
556 W. 168th St., New York City, N. Y. (Tel. LOrraine 8-8700)
Dir.-Purch.: Lucille McCulley **CO, TS, TR, R&D**

K-W ENGRG. WORKS
15920 Pin Oak Court (P.O.) Butler, Wisc. (Tel. (Milwaukee) SUnset 1-8616)
Purch. Agent: H. Charles Kaetel

KAAR ENGRG. CORP.
2995 Middlefield Rd., Palo Alto, Calif. (Tel. DAvenport 6-5050)
Purch. Agent: John F. Lombardi
Sales Mgr.: Frank Genochio

GEO. E. KAERCHER CO.
4911 36th Ave., S., Minneapolis 17, Minn. (Tel. PArkway 4-4986)
Purch.: Don Kaercher & Geo. Kaercher

KAHN & CO., INC.
541 Windsor St., Hartford, Conn. (Tel. CHapel 6-7431)
V. P.-Purch.: Kenneth O. Jacobs
Asst. Purch. Agent: James Melo
Expediter: Richard Metcalf
Sales Mgr.: Robert Hamerschlag **GS, TS, R&D**

KAHN RESEARCH LABS., INC.
22 Pine St., Freeport, N. Y. (Tel. FReeport 9-8800)
Asst. Purch.: Judy Wisner
V. P.-Sales: Kenneth B. Boothe **GS, TR, R&D**

KAISER AIRCRAFT & ELECTRONICS, DIV.-KAISER INDUSTRIES CORP.
P. O. Box 1828, Oakland 4, Calif. (Tel. San Leandro, Calif.—LOckhaven 2-2456)
Material Mgr.-Richmond Machining Plt.: James Tallman (Tel. Richmond, Calif.—LAndscape 6-4688)
Purch. Agent-Richmond & San Leandro Plts.: J. R. Anderson (Tel. Richmond, Calif.—LAndscape 6-4688)
Purch. Agent-Toledo Electronics Plt.: R. W. Gibson (Tel. Toledo, O.—RAndolph 6-1591)
Purch. Agent-Phoenix Electronics Plt.: Ralph Musbach (Tel. Phoenix, Ariz.—WIndsor 3-3431)
Sr. Sales & Contract Rep.-Phoenix Electronics Plt.: Robert N. O'Hara (Tel. Phoenix, Ariz.—WIndsor 3-3431)
Gen. Sales Mgr.-Weapons Systems Mktg. Dept.: A. L. Mapes (Tel. San Leandro, Calif.—LOckhaven 2-2456)
MF, WN, PS, GS, GH, GE, CO, TS, TR, MM, R&D

KAISER ALUMINUM & CHEMICAL SALES, INC.
919 N. Michigan Ave., Chicago 11, Ill. (Tel. MOhawk 4-6900) **MF, PS, GH**

KAISER METAL PRODUCTS, INC., FLEETWINGS DIV.
Bristol, Pa. (Tel. STillwell 8-8431)
Proc. Mgr.: W. C. Heilbrun
V. P. & Gen. Mgr.: S. D. Hackley
V. P. & Asst. Gen. Mgr.: F. H. Bechill
Purch. Mgr.: W. K. Palmer
Sales Mgr.: D. E. Egan **MF, WN, PS, MM, R&D**

KAISER STEEL CORP., FABRICATING DIV.
7301 Telegraph Rd., Los Angeles 22, Calif. (Tel. RAymond 3-5411)
Purch. Agent: Frank E. Cooper
V. P.-Gen. Mgr.: Jack J. Carlson **GS, GH, TS**

KANARR CORP.
447 Market St., Kingston, Penna. (Tel. BUtler 7-2151)
Purch. Agent: Clinton D. Smith
Sales Mgr.: John H. Uhl **MF, WN, PS, GS, GH**

KANO LABS.
1000 S. Thompson Lane, Nashville, Tenn. (Tel. ALpine 4-3519)
Purch.: Thomas J. O'Kane
Sales Mgr.: C. G. Montgomery **MF, WN, PS, GS**

KANTHAL CORP., THE
Amelia Place, Stamford, Conn. (Tel. DAvis 5-2206)
Chief Engr.: F. J. Barto
Sales Mgr.: G. W. Eisenbeis

KATOLIGHT CORP.
First Ave. & Chestnut St., Mankato, Minn. (Tel. 7966)
Purch. Agent: Norval Biggs
Sales Mgr.: Stan F. Neubert **GS**

KAUKE & CO.
1632 Euclid St., Santa Monica, Calif. (Tel. EXbrook 5-5246)
Purch. Agent: Robert Sable
Pres.: John R. Kauke **TR**

C. B. KAUPP & SONS, INC.
6-10 & 32 Newark Way, Maplewood N. J. (Tel. SOuth Orange 3-2490)
Pres.: Carl B. Kaupp, Jr.
Sec. Treas.: Clem N. Kaupp
Sales Rep.: John M. Hogan
WN, PS, GE, TS, TR, MM

KAUSTINE FURNACE & TANK CORP.
1937 Thomas St., Perry, N. Y.

KAY ELECTRIC CO.
Maple Ave., Pine Brook, N. J. (Tel. CApital 6-4000)
Purch. Agent: Marsden Shaw
Gen. Sales Mgr.: John Gilmore **TS**

KAYDON ENGRG. CORP., THE
McCracken St., Muskegon, Mich. (Tel. 5-1641)
Dir.-Purch.: W. J. Pierre
Buyers: John Peterson, Jim Obermiller
Dir.-Sales: J. F. Oehlhoffen
GS, GH, GE, TS, TR, R&D

JOSEPH KAYE & CO.
49 Hampshire St., Cambridge 39, Mass. (Tel. UNiversity 4-1386)
Joseph Kaye **MF, WN, PS, GS, GE, TR**

KAYNAR MFG. CO., INC.
Box 2001, Terminal Annex, Los Angeles 54, Calif. (Tel. SPruce 3-3070)
Purch. Agent: Geo Mooers
Gen. Mgr.: R. H. Randall
Sales Mgr.: K. D. Davis **MF, PS, GE, R&D**

***KEARFOTT CO., INC.**
1500 Main Ave., Clifton, N. J. (Tel. GRegory 2-1000)
Purch. Agent: K. Soper (Tel. CLifford 6-4000)
Dir.-Sales: W. S. Smith **GS, GE, TS, MM, R&D**
*(See Page 7 for Advertisement)

***KEARFOTT CO., INC., MICROWAVE DIV.**
14844 Oxnard St., Van Nuys, Calif. (Tel. STate 6-1760)
Prod. Mgr.: A. L. Lisle
Purch. Agent: R. E. MacMillan
Buyer: Loren Maxfield
Sales Mgr.: Walter K. Day **GE**
*(See Page 7 for Advertisement)

KEIL ENGRG. PRODUCTS
4356 Duncan St., St. Louis 10, Mo. (Tel. OLive 2-7005)
Gen. Mgr.: R. Steedman, 6833 Manchester (Tel. STerling 1-3209)
Sales Mgr.: Norman W. Kathrinus **MM**

KEITHLEY INSTRUMENTS, INC.
12415 Euclid Ave., Cleveland, Ohio (Tel. SWeetbriar 5-2666)
Works Mgr.: C. G. Stevens
V. P.-Research: Julius Praglin
V. P.-Engrg.: W. E. Koeblitz **TS, R&D**

KELITE CORP.
1250 N. Main St., Los Angeles 12, Calif. (Tel. CApitol 2-0201)
V. P., and Tech. Dir.: Louis McDonald
V. P.-Sales: W. Sorensen **MF, GH**

HUGO P. KELLER, JR.
50 East 42nd St., New York 17, N. Y. (Tel. MUrrayhill 2-8450)
Pres.: Hugo P. Keller, Jr.
Sales Mgr.: R. M. Wolff **MM**

M. W. KELLOGG CO., THE
P. O. Box 469, Jersey City, N. J. (Tel. DElaware 3-3100)
Mgr.-Plant Purch.: T. B. Rees
Buyers: J. E. Wallis, J. O. Dalstrom, H. F. Perkins, T. F. Driscoll
Sales Engr., Rocket Div.: F. H. Menke **MF, WN, PS**

KELSEY-HAYES CO.
3600 Military Ave., Detroit 32, Mich. (Tel. TAshmoo 5-5500)
Dir.-Purch. & Planning: W. L. Troutfetter
Gen. Mgr., Aviation Divs.: Leslie G. Taylor
Heintz Div.
Front St. & Olney Ave., Philadelphia 20, Pa. (Tel. LIvingston 8-1000)
V. P.-Sales: J. M. Ward
Dir.-Purch.: W. Miller
Metals Div.
Middle Settlement Rd., New Hartford, N. Y. (Tel. REdwood 5-6411, Utica, N. Y.)
Purch. Agent: Robert J. Goodman
Mgr.-Sales & Mktg.: Paul W. Beamer **MM**
Steel Products Engrg. Div.
1205 W. Columbia St., Columbus, Ohio (Tel. FAirfax 5-1541)
Purch. Agent: J. K. Brannan
Sales Mgr.: J. S. Wilkerson
Utica Metals Div.
2415 Whitesboro St., Utica 4, N. Y. (Tel. REdwood 5-6411)
Purch. Agent: Russell W. Jones
Sales Mgr.: P. W. Beamer
Utica Turbine Parts Div.
2415 Whitesboro St., Utica 4, N. Y. (Tel. REdwood 5-6411)
Purch. Agent: Russell W. Jones
Sales Mgr.: Walter D. Hart
MF, WN, PS, GS, GH, GE, TS, TR, MM, R&D

KEMLITE LABORATORIES, INC.
1819 W. Grand Ave., Chicago 22, Ill. (Tel. TAylor 9-6050)
Purch. Agent: J. V. Daniels
MF, WN, PS, GS, GE, TS, TR

KEMP AERO PRODUCTS
Marshall Hill Rd. West Milford, N. J. (Tel. PArkway 8-3149)
Dir. of Purch.: J. L. Bishop
Buyer: L. Cocks
V. P.-Sales & Engrg.: J. Harrington
PS, GS, GH, GE, R&D

KEMTRON ELECTRON PRODUCTS, INC.
14 Prince Pl., Newburyport, Mass. (Tel. HO 2-4464)
Purch. Agent: A. N. Dugar
Gen. Mgr.: E. T. Casellini **GE**

KENCO MFG. CO.
5211 Telegraph Rd., Los Angeles 22, Calif. (Tel. ANgelus 8-1201)
V. P.-Purch.: T. Thornburgh
V. P.-Sales: Bob Linville

KENHOS CORP. DIV.
P. O. Box 2, Noroton Heights Station, Darien, Conn. (Tel. Darien OLiver 5-1504)
Pres. and Sales Mgr.: G. H. Kendall

KENNAMETAL INC.
Lloyd Ave., Latrobe, Penna. (Tel. KEystone 7-3311)
Purch. Agent: Dale R. Versaw
Sales Mgr.: Bennett Burgoon, Jr.

D. S. KENNEDY & CO.
Cohasset, Mass. (Tel. EVergreen 3-1200)
Purch. Agent: Robert Fisher
V. P.-Sales: C. W. Creaser **TR, R&D**

KENNEDY AIRCRAFT SUPPLY CO.
43-10, 162 St., Flushing 58, N. Y. (Tel. HIckory 5-3500)
Gen. Mgr.: Chris Kennedy
Supervisor of Sales: K. D. Shanley

KENNEDY VAN SAUN MFG. & ENGRG. CORP.
405 Park Ave., New York 22, N. Y. (Tel. PLaza 3-2200)
Dir.-Purch. Dept.: R. K. May
Asst. V. P.: H. W. Bodlaender
Mgr.-Defense Prod. Div.: F. Irving, Jr.
Asst. Mgr.-Def. Prod.: J. Cannon **PS, R&D**

KENSICO TUBE CO. INC.
Mount Kisco, N. Y. (Tel. MOunt Kisco 6-8046)
Pres.: Thomas Nast
V. Pres.: Gordon W. Edwards
Treas.: Philip Gennussa
Plant Engr.: Arthur L. Mortenson **MM**

KENT-MOORE ORGANIZATION INC.
1501 S. Jackson St., Jackson, Mich. (Tel. STate 4-8561)
Prod. & Purch. Mgr.: A. L. Schultz
Purch. Agent: D. G. Clarke
Dir.-Mfg.: L. C. Krieser **R&D**

KENTUCKY METAL PRODUCTS CO.
3104 S. Preston St., Louisville 13, Ky. (Tel. MElrose 4-9421)
Purch. Agent: G. Burton
Dir.-Sales: J. L. Covert
Sales: C. Blackshear **MF, WN, MM**

KERN INSTRUMENTS, INC.
120 Grand St., P. O. Box 727, White Plains, N. Y. (Tel. WHite Plains 9-0101)
Exec. V. P.: F. E. Davatz
Serv. Mgr.: Hans T. Wehrli **GS, GE, TS, R&D**

KERNS MFG. CORP.
45-18 Court Sq., Long Island City 1, N. Y. (Tel. STillwell 6-2550)
Purch. Agent: Arnold Novak
Gen. Mgr.: R. J. Auman **MF, WN, PS**

KERRCO PRODUCTS
P. O. Box 228, Havelock Sta., Lincoln 7, Nebr. (Tel. 6-5105)

CODING
Missile Frame MF
Warhead & Nose Cone WN
Propulsion System PS
Ground Support GS
Ground Handling GH
Guidance Equipment GE
Checkout Equipment CO
Test Equipment TS
Tracking & Telemetering TR
Research & Development R&D
Materials & Metals MM

Pres.: R. W. Kerr
Sales Mgr.: D. W. Hemphill

KETAY DEPT., NORDEN DIV., UNITED AIRCRAFT CORP.
Jericho Turnpike, Commack, N. Y. (Tel. FOrest 8-5500)
Purch. Agent: S. Schiener
Buyer: M. Gibber
Sales Mgr.: H. M. Winton

KEY RESISTOR CORP.
321 W. Redondo Beach Blvd., Gardena, Calif. (Tel. DAvis 3-5000)
Purch. Agent: J. L. Golforth
Gen. Mgr.: W. Peddie **MM**

KEYSTONE CARBON CO.
1935 State St., St. Marys, Penna. (Tel. TE 41-591)
Purch. Agent: L. H. Schaut
Thermistor Sales: F. A. Brennan

KEYSTONE ELECTRONICS CORP.
49 Bleecker St., New York 12, N. Y. (Tel. GRamercy 5-4600)
Purch.: I. Rosen **MF, PS, GS, GH, GE, TS, TR**

KEYSTONE PRODUCTS CO.
904-6 23rd St., Union City, N. J. (Tel. UNion 6-5400)
Purch. Agent: James A. Ollick
Sales Coordinator: E. Holewski **GS, GE, TS**

KICKHAEFER MFG. CO.
901 S. Second St., Milwaukee 4, Wisc. (Tel. MItchell 5-1630)
Pres.: Edward A. Kickhaefer
V. P.-Purch.: Ernest Davis **PS, GH, TS, TR**

WALTER KIDDE & CO., INC., AVIATION DIV.
1320 Main St., Belleville 9, N. J. (Tel. PLymouth 9-5000)
Dir.-Purch.: E. R. Randall
Purch. Agents: John P. Blake, G. Lukacs
Asst. Purch. Agents: J. D. Tamburro, H. S. Klimanski
Buyers: S. Stefans, S. Eckhouse, W. Weber, A. Greifenhain, M. Corio, H. Griffith, C. McCarthy
MF, PS, GS, GH, GE, CO, TS

KIELEY & MUELLER, INC.
64 Genung St., Middletown, N. Y. (Tel. DIamond 2-2526)
Dir.-Purch.: Rex Palmer
Dir.-Sales: Joseph P. O'Conner, Jr.

KILGEN AIRCRAFT DIV.
P. O. Box 94, 8008 Carondolet Ave., Clayton (St. Louis) 5, Mo. (Tel. PArkview 7-8920)
Dir.-Sales: Eugene R. Kilgen **GS**

KILGORE, INC., INTERNATIONAL FLARE-SIGNAL DIV.
200 E. Broadway, P. O. Box 31, Westerville, O. (Tel. TUxedo 2-2341)
Purch. Agent: W. D. Watkins
Asst. Purch. Agent: H. L. Zwick
Sales Mgr.-International Flare-Signal Div.: G. J. Bishop **PS**

KIN TEL DIV.-COHU ELECTRONICS, INC.
5725 Kearny Villa Rd., San Diego 12, Calif. (Tel. BRowning 7-6700)
Purch. Agent: Robert J. Just
Pres.: R. T. Silberman **TS, R&D**

KINEVOX DIV.-ELECTROMATION CO.
1646 18th St., Santa Monica, Calif. (Tel. EXbrook 5-9975)
Chief-Purch.: G. B. Blackwell
Sales Mgr.: William S. Williams **GE, TR, R&D**

KINNEY MFG. DIV., THE NEW YORK AIR BRAKE CO.
3529 Washington St., Boston 30, Mass. (Tel. JAmaica 4-3220)
Purch. Agent: P. E. Bott
Buyer: R. P. Ostrand
Gen. Sales Mgr.: W. B. Mills

KING FIFTH WHEEL CO.
P. O. Box 759, Wilkes-Barre, Penna. (Tel. GRanite 4-6371)
Purch. Agent: J. J. Gatti
V. P.-Sales: J. E. Gibbons **MF, PS**

KINGSTON ELECTRONICS — DIV.-KINGSTON INDUSTRIES INC.
North St., Medfield, Mass. (Tel. FLeetwood 9-4347)
Purch. Agent: N. H. Peterson
Sales Mgr.: R. W. Moulton **TS**

KIP ELECTRONICS CORP.
29 Holly Place, Stamford, Conn. (Tel. DAvis 5-1551)
Supvr.-Purch.: Graydon Cochrane
V. P.-Sales: John N. Higgins

M. KIRCHBERGER & CO., INC.
250 Humphry St., Englewood, N. J. (Tel. LOwell 8-4555)
Purch. Agent: A. Kent
Sales Mgr.: T. H. Church **MM**

KIRK & BLUM MFG. CO., THE
3120 Forrer St., Cincinnati 9, Ohio (Tel. ELmhurst 1-1400)
Purch. Agent: F. G. Weber
Asst. Purch. Agent: Fred Herrle
Dir.-Sales: W. R. Meuttman **MM**

H. R. KIRKLAND CO., THE
10 King St., Morristown, N. J. (Tel. JE 8-2777)
Dept. Mgrs.: Brule Kirkland, Harry P. Anson
Dir.-Sales: H. R. Kirkland

KLINCHER LOCKNUT CORP.
2153 Hillside Ave., Indianapolis 18, Ind. (Tel. WAlnut 5-9284)
Purch. Agent: Mrs. Jean Groseclose
Engr.-Purch.: E. W. Pummill
Sales Mgr.: I. J. Dienhart **MF, PS**

KLING METAL SPINNING & STAMPING CO.
247 Centre St., New York, N. Y. (Tel. CAnal 6-5580)
Owner: Philip Kling **WN, MM**

KLOCK CORP.
1272 Tolland Tpke., Manchester, Conn. (Tel. MItchell 9-5291)
Pres.: F. S. Klock **MM**

KNAPIC ELECTRO-PHYSICS
936 Industrial Ave., Palo Alto, Calif. (Tel. DAvenport 1-5544)
Purch. Agent: Alvin G. Pretzer
Dir.-Sales: George M. MacLeon **MM**

KNOPP INC.
1307 66th St., Oakland 8, Calif. (Tel. Olympic 3-1661)
Sales Mgr.: Henry N. Muller

KOBE INC.
3040 East Slauson Ave., Huntington Park, Calif. (Tel. LUdlow 8-1271)
Purch. Agent: R. W. Warfield
Aircraft Sales Mgr.: P. H. Jamison **GH, TS, R&D**

H. KOCH & SONS
P. O. Box 125, Corte Madera, Calif. (Tel. WAbash 4-3510)
Purch. Agent: H. Salkin
Gen. Mgr.: M. P. Koch **PS, GS**

KOEHLER AIRCRAFT PRODUCTS CO.
409 Leo St., Dayton 59, O. (Tel. BAldwin 6-1821)
Purch. Agent: Betty Jackowitz
Gen. Sales Mgr.: R. T. McCauley **PS, GS**

KOHLER CO.
Kohler, Wisc. (Tel. GLencourt 7-4441)
V. P. & Sales Mgr.: A. G. Zibell
Sales Rep.: W. C. Voight **PS, GS, GH**

KOILED KORDS INC.
1565 Dixwell Ave., New Haven 14, Conn. (Tel. CHestnut 8-5515)
Purch. Agent: D. C. McKean
V. P.-Sales: E. L. Love **MF**

KOLCAST INDUSTRIES —DIV. THOMPSON RAMO WOOLDRIDGE INC.
P. O. Box 250, Minerva, Ohio (Tel. 725)
Purch. Agent: A. M. Pelley
Sales Mgr.: R. C. Kramer **MM, R&D**

KOLLMORGEN OPTICAL CORP.
347 King St., Northampton, Mass. (Tel. JUstice 4-0280)
Purch. Agent: Richard G. Walsh
Asst. Purch. Agent: George Dudley
Sales Mgr.: William C. O'Donnell **GS, TS, TR, R&D**

KOLLSMAN INSTRUMENT CORP., SUB.-STANDARD COIL PRODUCTS CO. INC.
80-08 45th Ave., Elmhurst 73, N. Y. (Tel. TWining 9-5600)
Purch. Agent: J. Goodrich
Gen. Sales Mgr.: Henry N. Droge

E. KONIGSLOW STAMPING & TOOL CO.
450-1-N, 9th St., Elwood, Indiana (Tel. FE 2-5342)

***KOONTZ-WAGNER ELECTRIC CO., INC.**
516 N. Michigan St., South Bend 1, Ind. (Tel. CEntral 3-8251)
Procurement Mgr.: A. W. Koehnke
Gen. Mgr.: C. D. Hills
Production Mgr.: C. H. Bill
V. P.-Sales: B. Kumm **PS, GE**

*(See Page 35 for Advertisement)

KOPP GLASS, INC.
Swissvale, Pittsburgh 18, Pa. (Tel. BRandywine 1-0190)
Purch. Agent: Charles Rudek
V. P.-Sales: J. L. Newton **GS, GE**

KOPPERS CO., INC.
Koppers Bldg., Pittsburgh, Pa. (Tel. EXpress 1-3300)
V. P.-Purch.: P. D. Shollar
Sales Mgr.-Chem. Div.: J. W. Pool
Sales Mgr.-Metal Products Div.: Harry Neher

KOPPERS CO., INC., METAL PRODUCTS DIV.
200 Scott St., Baltimore 30, Md. (Tel. SAratoga 7-2500)
Dir.-Procurement: B. K. Shaner
Mktg. Mgr.: H. P. Neher **MF, PS, TS**

KORDA INDUSTRIES
20 W. 46th St., New York 36, N. Y. (Tel. JU 2-1078)
Purch. Agent: Ruth B. Speaker
Sales Mgr.: George Edrich **MF, PS, GE, CO**

KORRY MFG. CO.
223 8th Ave. North, Seattle 9, Wash., (Tel. MAin 4-4066)
Sales Mgr.: J. D. White
Chief Engr.: H. K. Wilson **GS, CO, TS**

KRAEUTER & CO., INC.
583-585 Eighteenth Ave., Newark 3, N. J. (Tel. ESsex 3-4000)
Buyer: F. M. McCudden
V. P.-Sales: Joseph E. Buhler

KRAMER FABRICATING CO., THE
920 Fisher Bldg., Detroit 2, Mich. (Tel. TRinity 1-1800)
Sales Mgr.: Charles R. Sterritt **PS, GS, TR, MM**

HERB KRECKMAN CO.
Cresco, Pa. (Tel. 2212)
Herb Kreckman **GS**

KRESSILK PRODUCTS, INC.
73 Murray St., New York, N. Y. (Tel. BA 7-2492)
V. P.: Roland Tobler
V. P.-Sales: S. A. Catone **MM, R&D**

HAROLD KRUGER INSTRUMENTS
313 W. Valley Blvd., San Gabriel, Calif. (Tel. ATlantic 4-3541)
Purch. Agent: Ronald D. Rossiter
Owner: Harold Kruger **TS**

KRYLON, INC.
Ford & Washington Sts., Norristown, Pa. (Tel. BRoadway 9-1950)
Dir.-Purch.: William Sansalone
V. P.-Sales: Richard C. Newbold **MF, GS, GH, MM**

KULKA ELECTRIC CORP.
633-643 S. Fulton Ave., Mt. Vernon, N. Y. (Tel. Mt. Vernon 4-4024)
Treas.: William Kulka
Purch. Agent: Harry Meltzer
Sales Mgr.: Elliott Edelman
MF, WN, PS, GS, GH, GE, CO, TS, TR

KURMAN ELECTRIC CO., DIV.-NORBUTE CORP.
191 Newel St., Brooklyn 22, N. Y. (Tel. EVergreen 3-8000)
V. P.-Purch.: Julian Goodstein
Purch. Agent: Jim Barry
Sales Mgr.: Wallace Green
GS, GH, GE, CO, TS, R&D

KURZ-KASCH, INC.
1421 S. Broadway, Dayton, O. (Tel. BAldwin 3-8161)
Purch. Agent: I. H. Naas
Asst. Purch. Agent: David Dohner
V. P.-Sales: R. L. Davidson **WN, GS, GH, CO**

L. A. B. CORP.
Skaneateles 1, N. Y. (Tel. SKaneateles 1161)
Purch. Agent: H. B. Mantz
Sales Mgr.: J. T. Hubbard **TS**

L. O. F. GLASS FIBERS CO.
3116 Van Owen Blvd., Burbank, Calif. (Tel. VIctoria 9-2331)
Purch. Agent: Robert O. Eiseld
Sales Mgr.: Wm. Worcester **MF, WN, PS, GS, GE, TR**

L S M MFG. CO.
202 N. Elm, Waterbury, Conn. (Tel. PLaza 4-4136)
Dir.-Purch. & Sales Mgr.: P. J. Ciarleglio

LABELON TAPE CO., INC.
450 Atlantic Ave., Rochester 9, N. Y. (Tel. HUbbard 2-3460)
Purch. Mgr.: Kurt Baum
Gen. Sales Mgr.: D. L. Allen **MM**

LAB. FOR ELECTRONICS, INC.
75 Pitts St., Boston, Mass. (Tel. RIchmond 2-3200)
Purch. Agent: W. J. Stanton
Asst. Purch. Agent: H. E. Nilson
Chief Mech. Buyer: B. P. O'Sullivan
Chief Electrical Buyer: H. Wilayto
Chief Mill Supply Buyer: H. Tungate
Dir.-Sales: R. K. Mosher **TS, TR**

LACONIA MALLEABLE IRON CO., INC.
71 Water St., Laconia, N. H. (Tel. 53)
Supt.: Bernard P. Brisse
Treas.: W. C. Brisse — **GS**

LADISH CO.
5481 S. Packard Ave., Cudahy, Wisc. (Tel. HUmboldt 1-1500)
Purch. Agent: J. F. Wachs
Sales Mgr.-Forging Div.: R. F. Starz
MF, WN, PS, GS, R&D

LAMB ELECTRIC CO., THE., DIV.-AMERICAN MACHINE & METALS, INC.
Lake St., Kent, Ohio (Tel. ORchard 3-3451)
Purch. Agent: S. E. Campbell
Gen. Sales Mgr.: E. L. McIntyre

LAMBDA ELECTRONICS CORP.
11-11 131st St., College Point, N. Y. (Tel. INdependence 1-8500)
Purch. Agent: E. Botuck
Exec. V. P.-Sales: Simeon Weston — **GS**

***LAMINATED SHIM CO.**
9304 Union St., Glenbrook, Conn. (Tel. DAvis 5-2631)
Purch. Agent: Frederick J. Thomas
V. P.-Sales: M. L. Lockwood — **MF, WN, PS, MM**
*(See Pages 58 & 59 for Advertisement)

LAMPKIN LABS., INC., MR DIV.
Bradenton, Fla. (Tel. 6-1906)
Purch. Agent & Sales Mgr.: George C. Craig — **TS**

LAMSON & SESSIONS CO., THE
5000 Tiedeman Rd., Cleveland 9, O. (Tel. CLearwater 2-3700)
Dir.-Purch.: Frank J. DeCrane
Asst. Mgr.-Aircraft Sales: Don H. Kluth
V. P.-Sales: J. G. Rayburn — **MM**

LAMTEX INDUSTRIES, INC.
66 Brooklyn Ave., Westbury, N. Y. (Tel. EDgewood 3-5000)
Buyer: Irving Griman
V. P. & Sales Mgr.: Hsing Liu — **MM, R&D**

LANCASTER GLASS CORP.
Lancaster, Ohio (Tel. OLive 3-0311)
Purch. Agent: Homer Echard
Sales Mgr.: M. R. Hoover

LAND-AIR INC.
7444 W. Wilson Ave., Chicago 31, Ill. (Tel. UNderhill 7-7550)
Purch. Agent: C. D. Mitchell
Mgr.-Field Mktg.: Rodney A. Stevens
MF, GS, GH, GE, CO, TS, TR, R&D

LANDIS & GYR, INC.
45 W. 45th St., New York 36, N. Y. (Tel. JUdson 6-4644)
Exec. V. P.: M. Wiesendanger
Sales Mgr.: John J. McNiff — **CO, TS**

LANDSVERK ELECTROMETER, CO., THE
641 Sonora Ave., Glendale, Calif. (Tel. CHapman 5-6687)
Purch. Agent: Paul Giebelman
V. P.-Sales: D. L. Collins
Mgr., Comm. Div.: D. L. Merriner
Mgr., Contract Div.: J. Larson
Mgr., Metal Prod. Div.: W. Miller
Mgr., Micrograph: Fred Hale — **GE, CO, TS**

LANE ELECTRONICS MFG. CORP.
7254 Atoll Ave., North Hollywood, Calif. (Tel. ST 7-3267)
Purch. Agent: Philip A. Mottola
Sales Mgr.: Ray E. Enter — **CO, TS, R&D**

LANGEVIN DIV., THE W. L. MAXSON CORP.
47-37 Austell Pl., Long Island City 1, N. Y. (Tel. RAvenswood 9-1850)
Purch. Agent: Danial Ryan
Sales Mgr.: Albert Schneider — **MM**

LAPHAM HICKEY STEEL CORP.
3333 W. 47th Pl., Chicago 32, Ill. (Tel. VI 7-0822)
Dir.-Sales: J. W. Davis

LA POINTE INDUSTRIES INC.
Rockville, Conn. (Tel. TRemont 5-3351)
Purch.: E. Evans
Pres.: Y. H. Stillbach
MF, WN, GS, GH, GE, CO, TR, R&D

LA POINTE MACHINE TOOL CO., THE
34 Tower St., Hudson, Mass. (Tel. HUdson 850)
Purch. Agent: Ira J. Habeshian
V. P.-Sales: Joseph P. Crosby — **PS, MM**

LA ROE INSTRUMENTS, INC.
1709B E. Montgomery Ave., Rockville, Md. (Tel. HAzelwood 7-7455)
Purch. Agent: R. L. Taylor
Pres.: William A. Linton, Jr. — **GE, CO, TR**

CHARLES E. LARSON & SONS, INC.
2645-65 N. Keeler Ave., Chicago 39, Ill. (Tel. SP 2-9700)
Purch. & Sales: Charles M. Larson — **MM**

***LAVELLE AIRCRAFT CORP.**
Sterling St., Newtown, Bucks County, Pa. (Tel. WOrth 8-3838)
V. P. & Purch. Agent: H. A. Liese
Contracts Mgr.: Frank V. Kiefer
Chief Engr.: Adolph Herzog — **MF, WN, PS**
*(See Page 98 for Advertisement)

***LAVEZZI MACHINE WORKS**
4635 W. Lake St., Chicago 44, Ill. (Tel. ESterbrook 8-1636)
Purch. Agent: Jerome J. Kremer
Sales Mgr.: Worth Baird — **GS, GE, TR, R&D**
*(See Page 80 for Advertisement)

LAVOIE LABS., INC.
Matawan-Freehold Rd., Morganville, N. J. (Tel. LOwell 6-2600)
Purch. Agent: G. F. Croddick
Buyers: N. Robinson & J. Higgins
Sales Admin.: J. D. Copeland — **GS**

LAWRENCE PUMPS INC.
371 Market St., Lawrence, Mass. (Tel. MUrdock 2-5249)
V. J. Mill, Jr. — **GS**

LEACH CORP.
Leach Inet Div.
18435 Susana Rd., Compton, Calif. (Tel. NEvada 6-1061)
Purch. Agent: Rudy Jantz
Buyers: C. M. Riddell, J. Paar
Gen. Sales Mgr.: V. Kostuck
V. P.-Sales: J. K. Dysart
Leach Relay Div.
5915 Avalon Blvd., Los Angeles 3, Calif. (Tel. ADams 2-8221)
Purch. Agent: A. E. Rose
Buyers: Harry Sawyer, Allan Sapp — **GS, CO, TS**

LEAMING ENGRG., INC.
3743 Cahuenga Blvd., North Hollywood, Calif. (Tel. Stanley 7-3223)
Purch. Agent: Freda S. Kraft — **TR, R&D**

LEAR, INC.
3171 S. Bundy Dr., Santa Monica, Calif. (Tel. EXmont 8-6211)
Astronics Div.: 3171 S. Bundy Dr., Santa Monica, Calif. (Tel. EXmont 8-6211)
Head-Purch. Dept.: Robert H. Loomis
LearCal Div.: 3171 S. Bundy Dr., Santa Monica, Calif. (Tel. EXmont 8-6211)
Head-Purch. Dept.: Ray Fisher
Lear, Inc.: 100 Ionia, N. W., Grand Rapids 2, Mich. (Tel. GLendale 1-1555)
Purch. Agent: Robert S. Thies
Lear-Romec Div.: Abbe Rd., Elyria, Ohio
GS, GE, CO

LEAR, INC., GRAND RAPIDS DIV.
110 Ionia Ave., N. W., Grand Rapids, Mich. (Tel. GLendale 1-1555)
Purch. Agent: R. S. Thies
V. P. & Dir.-Military Mktg. Serv.: K. R. Hahn
WN, PS, GS, GE, CO, TS, TR

LEAR INC., LEAR-ROMEC DIV.
Abbe Rd., Elyria, Ohio (Tel. FAirfax 3-3211)
Purch. Agent: W. W. Wilber
Contracts Mgr.: J. E. McKeighan — **PS, GS, GH**

LEBANON STEEL FOUNDRY
1st Ave. & E. Lehman St., Lebanon, Pa. (Tel. CR 3-1611)
Dir.-Purch.: C. R. Mease
Sales Mgr.-Spec. Products: R. W. Patridge
Gen. Sales Mgr.: John H. Boyd — **MM**

LEBEC CHEMICAL CORP.
14066 S. Garfield Blvd., Paramount, Calif. (Tel. NEvada 6-3381)
Purch. Agent: George Wolf
Pres.: John C. Plummer — **MM, R&D**

R. K. LEBLOND MACHINE TOOL CO.
Madison & Edwards Rds., Cincinnati, O. (Tel. JEfferson 1-0910)
Purch. Agent: Wm. McK. Reis
V. P.-Sales: B. N. Brockman — **MF**

LECTROHM, INC.
5560 Northwest Hwy., Chicago 30, Ill. (Tel. ROdney 3-1700)
Head-Purch. Dept.: I. H. Adair
Head-Sales: J. Rinaldi — **MM**

LEDEEN INC.
3350 N. Gilman Rd., El Monte, Calif. (Tel. CUmberland 3-3163)
Purch. Agent: E. J. Hoy
Sales Mgr.: Harold Rosoff — **GH**

LEE CO., THE
Wesley Ave., Westbrook, Conn. (Tel. Saybrook, Conn. EXport 9-6228)
Pres.-Research & Dev.: Leighton Lee, II
Office Mgr.: Elenor Shields — **R&D**

LEECRAFT MFG. CO., INC.
60 Greene St., New York 12, N. Y. (Tel. WOrth 6-2855)
Dir.-Purch.: N. R. Sherwin
Dir.-Sales: R. S. Nelson — **MM**

LEEDS & NORTHRUP CO.
4907 Stenton Ave., Philadelphia 44, Pa. (Tel. DAvenport 9-4900)
Mgr.-Purch. Dept.: J. E. Jennings
Sales Mgr.-Engrg. Div.: H. L. Scutt — **CO, TS**

LEETRONICS, INC.
30 Main St., Brooklyn 1, N. Y. (Tel. ULster 5-7163)
Purch. Agent: T. Dalton
Gen. Mgr.-Sales: O. M. Lerz, Jr.
PS, GS, GH, TS, R&D

LEFFINGWELL CHEMICAL CO.
P. O. Box 1187, Perry Annex, Whittier, Calif. (Tel. EDgewood 6-5774)
Purch. Agent: J. W. Kinsman — **MF, GS, MM**

LEGRIS CO.
391 Riverdale Ave., Yonkers 5, N. Y. (Tel. YOnkers 9-6000) — **RS, TR, R&D**

LEIMAN BROTHERS, INC.
P. O. Box 1339, 146-181 Christie St., Newark 1, N. J.
Purch. Agent: Frank Cristo — **PS, GS**

LEITCH-HUARD CORP.
Stark & Commercial Sts., Manchester, N. H. (Tel. NAtional 3-4773)
Pres.: A. J. Huard
Electronics Buyer: H. E. Newell
V. P.-Sales: D. Robert Leitch — **TS**

L E L, INC.
380 Oak St., Copiague, L. I., N. Y. (Tel. AM 4-2200)
Purch. Agent: D. Dody
Sales: C. A. Nuebling — **GE, TR**

LELAND AIRBORNE PRODUCTS, DIV.-AMERICAN MACHINE & FOUNDRY CO.
P. O. Box 128, 740 E. National Hwy., Vandalia, O. (Tel. TWin Oaks 8-5881)
Purch. Agent: Walter Stump
Buyers: D. Bechtol & M. Booher
Sales Mgr.: E. C. Johns — **GS, R&D**

G. H. LELAND, INC.
123 Webster St., Dayton 2, O. (Tel. BAldwin 4-9891)
Purch. Agent: Morris M. Wright
Asst. Purch. Agent: H. E. Jacobs
Sales Mgr.: Hans G. Belitz — **GS, GE**

LEMERT ENGRG. CO., INC.
1313 Western Ave., Plymouth, Ind. (Tel. WEbster 6-3430)
Head-Purch. Dept.: E. R. Lemert
Head-Sales: J. F. Sherrill — **WN, MM**

LENKURT ELECTRIC CO., INC.
1105 County Rd., San Carlos, Calif. (Tel. LYtell 1-8461)
Military Purch. Mgr.: David Steinberg
Military Mktg. Mgr.: Joseph R. Sherman

LENOX INSTRUMENT CO.
2010 Chancellor St., Phila. 3, Pa. (Tel. RIttenhouse 6-6653)
Dir.-Purch.: John W. Lang

LENZ ELECTRIC MFG. CO.
1751 N. Western Ave., Chicago 47, Ill. (Tel. ARmitage 6-4454)
Purch. Agent: Charles M. Wilkins
Exec. V. P.: R. G. Zender — **GS, GE, TR, R&D**

***WALLACE O. LEONARD, INC.**
373 S. Fair Oaks Ave., Pasadena, Calif. (Tel. RYan 1-4446)
Purch. Agent: Arthur W. Foster
Purch. Expediter: Robert L. Todd
Sales Admin.: Kenneth I. Stubbs
MF, PS, GS, GH, GE, CO, TS, TR
*(See Page 186 for Advertisement)

LERCO ELECTRONICS, INC.
501 S. Varney St., Burbank, Calif. (Tel. VIctoria 9-5556)

CODING

Missile Frame	MF
Warhead & Nose Cone	WN
Propulsion System	PS
Ground Support	GS
Ground Handling	GH
Guidance Equipment	GE
Checkout Equipment	CO
Test Equipment	TS
Tracking & Telemetering	TR
Research & Development	R&D
Materials & Metals	MM

Purch. Agent: Sylvia Garmong
V. P.-Sales: Harold J. Wittmeyer
GS, GE, TS, TR, MM

LESLIE CO.
321 Leslie Bldg., Lyndhurst, N. J. (Tel. GEneva 8-8000)
Sales: James R. Grabill GS

R. G. LETOURNEAU, INC.
2399 S. MacArthur, Longview, Texas (Tel. PLaza 3-4411)
Dir.-Purch.: Clair Weller
Asst. Dir.-Purch.: John Williamson
Defense Proj. Section: H. V. Anderson
V. P.-Sales: R. L. LeTourneau GH

LOUIS LEVIN & SON, INC.
3610 S. Broadway, Los Angeles 7, Calif. (Tel. ADams 3-7169)
Mgr.-Purch. & Sales: Samuel Levin

LEVINTHAL ELECTRONIC PRODUCTS, INC.
3180 Hanover St., Stanford Industrial Park, Palo Alto, Calif. (Tel. DAvenport 6-1640)
Purch. Agent: Robert H. Shimer
PS, GS, GE, CO, TS, TR

E. B. LEWIS CO., INC.
11 Bragg St., E. Hartford, Conn. (Tel. JAckson 8-0830)
Pres.: Ernest B. Lewis GS, GE

***LEWIS ENGRG. CO., THE**
339 Church St., Naugatuck, Conn. (Tel. PArk 9-5253)
Purch. Agent: M. N. Forde
Chief Field Engr.: H. D. Alexander
*(See Page 5 for Advertisement) GS, CO, TS, TR

WARNER LEWIS CO., DIV.-FRAM CORP.
817 N. Lewis Pl., Tulsa, Okla (Tel. WEbster 9-6386)
Purch. Agent: R. P. Leedy
Sales Mgr.: T. R. Bradley GS

LEWIS & SAUNDERS
20 Bayside St., Lakeport, N. H. (Tel. LAkeside 4-2064)
Gen. Mgr.-Purch.: W. W. Saunders PS

LIBERTY MIRROR DIV., LIBBEY-OWENS-FORD GLASS CO.
851 Third Ave., Brackenridge, Pa. (Tel. ACademy 4-1800)
Purch. Agent: C. R. MacDonald
Gen. Mgr.: J. C. Ogle, Jr. GE, CO, TR

LIBRASCOPE INC.
808 Western Ave., Glendale, Calif. (Tel. CItrus 4-6541)
Purch. Agent: M. L. Cowen
Purch.-Components: A. N. Nelson
MF, WN, PS, GS, GE, CO, TS, TR, R&D

LICON SWITCH & CONTROL DIV., ILLINOIS TOOL WORKS
6606 W. Dakin St., Chicago 34, Ill. (Tel. AVenue 2-4040)
Buyer: R. J. Salners
Dir.- Sales & Engrg.: J. O. Roeser WN, GS

LIECO, INC.
3610 Oceanside Rd., Oceanside, N. Y. (Tel. RO 6-7620)
Purch. Agent: J. Mackey
Dir.-Sales: A. Zeitz GE, TR

LIGGETT SUPPLY & EQUIPMENT CO.
2030 S. Main St., Elkhart, Ind. (Tel. 3-2930)
Dir.-Purch.: H. K. Skinner
Mgr., Special Products Div.: W. L. Lichtenberger
Chief Engr.: A. S. Krotz
Gen. Mgr.: F. O'Brien GS, GH

LIGHT METALS, INC.
1100 E. 24th St., Indianapolis 5, Ind. (Tel. WAlnut 6-4591)
Purch. Agent: Kenneth R. Goodwin
V. P.-Sales: Thomas H. Hargitt
MF, WN, PS, GH, MM

LINCOLN ELECTRIC CO., THE
22801 St. Clair Ave., Cleveland 17, O. (Tel. IVanhoe 1-8100)
Dir.-Purch: H. A. Burnip
Exec. V. P.-Sales: J. S. Roscoe GS, GH

LINDBERG ENGRG. CO.
2450 W. Hubbard St., Chicago 12, Ill. (Tel. MOnroe 6-3443)
Purch Agent: E. A. Griebe
Sales Mgr.: C. F. Burling
MF, WN, PS, GS, GH, GE, CO, TS, TR, MM, R&D

LINDE CO., DIV.-UNION CARBIDE
30 E. 42nd St., New York, N. Y. (Tel. MU 7-8000)
Mgr.-Mkt. Research & Prom.: S. Hahn MF, WN, PS

LINDGREN FOUNDRY CO.
717 Main St., Batavia, Ill. (Tel. 1800)
Purch. Agent: John E. Lindgren
Asst. to Pres.: William J. Meinhard MM

LINEAR, INC.
State Rd. & Levick St., Philadelphia 35, Pa. (Tel. MA 4-4700)
Purch. Agent: F. Murphy, Dallas, Pa. (Tel. ORchard 4-1541)
V. P.-Sales: F. A. Lewis

LING ELECTRONICS, INC.
9937 W. Jefferson Blvd., Culver City, Calif. (Tel. TExas 0-7711)
Purch. Agent: Frank Burke
Dir.-Sales: Charles Theodore GS, CO, TS

LINK AVIATION, INC.
Hillcrest, Binghamton, N. Y. (Tel. 3-6311)
Purch. Agent: M. B. Bird
Buyers: N. Tatich, F. J. Sabraw & J. F. Clark
V. P.-Sales: L. L. Kelly

LINK-BELT CO.
Prudential Plaza, Chicago 1, Ill. (Tel. RAndolph 6-7790)
V. P.-Sales: David E. Davidson
Purch. Agent: Dan E. Cobb
Los Angeles 22, Calif. (Mail Address, Box 22056, 1200 Sycamore St., Montebello, Calif.)
Purch. Agent: George Somps
400 Paul Ave., San Francisco 24, Calif.
Purch. Agent: James T. McDonald
Box 10514, Sta. A., 1116 Murphy Ave., S. W., Atlanta 10, Ga.
Purch. Agent: Andrew K. Kolar
(Pershing Rd. Plt.) 300 W. Pershing Rd., Chicago 9, Ill.
Purch. Agent: Albert W. Weldon
(Caldwell Plt.) 2410 W. 18th St., Chicago 8, Ill.
Purch. Agent: Richard J. Joyce
220 S. Belmont Ave., Indianapolis, Ind.
Purch. Agent: Marvin H. Cramer
200 Lyndale Ave., N., Minneapolis 5, Minn.
Purch. Agent: Albert W. Boegner, Colmar, Pa.
Purch. Agent: F. Walter Skerrett
2045 W. Hunting Park Ave., Philadelphia 40, Pa.
Purch. Agent: William A. Cameron
Box 2563, 3203 South Wayside, Houston 1, Texas
Purch. Agent: Charles Percich
3405 Sixth Ave., S., Seattle 4, Wash. GS, GH

LION FASTENER CO., INC.
Lester, Pa. (Tel. LEhigh 4-9600)
Plant Supt.-Purch.: Harold Ollerenshaw
Sales: T. R. Dunlevy MF

EDWIN A. LIPPS ENGRG.
1511 Colorado Ave., Santa Monica, Calif. (Tel. EX 3-0449)
Purch. Agent: Ray E. Haney
Prod. Suprvsr.: T. F. Adams
Gen. Mgr.: B. D. Lipps TR

LIQUIDOMETER CORP., THE
41-03 36th St., Long Island City 1, N. Y. (Tel. STillwell 4-1440)
Purch. Agent: Richard H. Hogan
V. P.-Sales: Harry T. Cullinan GS, TS, R&D

G. W. LISK CO., INC
Clifton Springs, N. Y. (Tel. HOward 2-2611)
Dir.-Sales: I. A. Morris PS, GS, GH, GE

LISLE CORP.
807 Main St., Clarinda, Iowa (Tel. LIberty 2-2156)
Treas.: Earl Thompson
Asst. Purch. Agent: Harry Rubin
V. P.-Sales: Edwin Lisle

LISS PRODUCTS, INC.
1050 Second St., Manchester, N. H. (Tel. NA 3-5711)
V. P.-Purch.: Mark Strickland
Pres.: John C. Stanhope WN, MM, R&D

LITHIUM CORP. OF AMERICA, INC.
1100 Title Ins. Bldg., Minneapolis 1, Minn. (Tel. FEderal 2-7541)
Dir.-Purch. & Traffic: J. W. Douglas
Mgr. Sales Dept.: J. D. Campbell MM, R&D

LITTLEFUSE, INC.
1865 Miner St., Des Plaines, Ill. (Tel. VAnderbilt 4-1188)
Purch. Agent: Dave Shean
Dist. Sales Mgr.: Walter A. Clements

LITTON ENGRG. LABS.
P. O. Box 949, Grass Valley, Calif. (Tel. Grass Valley 1730)
Purch. Agent: Mrs. Grace Martz
Gen. Mgr.: F. L. Towne

LITTON INDUSTRIES, INC.
336 N. Foothill Rd., Beverly Hills, Calif. (Tel. CRestview 4-7411)
Public Relations: Claude Meconis GE, TR, R&D

LITTON INDUSTRIES, COMPONENTS DIV.
5873 Rodeo Rd., Los Angeles 16, Calif. (Tel. VErmont 7-1228)
Purch. Agent: Jack Brophy
Dir.-Sales: R. W. Griffiths

LITTON INDUSTRIES, MARYLAND DIV.
4900 Calvert Rd., College Park, Md. (Tel. UNion 4-5678)
Dir.-Purch.: Earl Ahern
Dir.-Sales: George Tinker GE, CO, TS, TR

LITTON INDUSTRIES, U. S. ENGRG. CO. DIV.
5073 Rodeo Rd., Los Angeles, Calif. (Tel. VE 7-1228)
Purch. Agent: Richard J. Lee
Sales: Paul J. Robichand MM

LIVERMONT, INC.
Myrtle & Maple Aves., Monrovia, Calif. (Tel. ELliott 9-2555)
Purch. Agent: J. F. Hubbard
Sales Mgr.: M. McLean

LIVINGSTON ELECTRONIC CORP.
27 Runnymede Rd., Essex Fells, N. J. (Tel. CApital 6-3333)
Prod.: Charles L. Nolte
Engrg.: C. E. Smiley GE, R&D

LOCKHEED AIRCRAFT CORP., MISSILES & SPACE DIV.
1122 Jagels Rd., P. O. Box 504, Sunnyvale, Calif. (Tel. REgent 9-9611)
Gen. Purch. Agent: L. G. Sinning
Dir.-Military Sales: G. H. Putt
MF, WN, PS, GS, GH, GE, CO, TS, TR, MM, R&D

LOCKREY CO., THE
P. O. Box J, Southampton, N. Y. (Tel. SOuthampton 1-0278)
Purch. Agent: J. Davis
Sales Mgr.: D. I. McMeekan MM

LODGE & SHIPLEY CO., THE
3055 Colerain Ave., Cincinnati 25, Ohio (Tel. KIrby 1-4774)
Purch. Agent: John Bates
Gen. Sales Mgr.: Donald O. Edwards
Sales Prom. Mgr.: Arthur V. Baumann

LOEWY-HYDROPRESS, DIV.-BALDWIN-LIMA-HAMILTON CORP.
111 Fifth Ave., New York 3, N. Y. (Tel. ORegon 7-5030)
Purch. Mgr.: John Swanberg
Sales: Frederick F. Fielder & Paul Mayer
MF, PS, GS, GH, TS

LOFSTRAND CO., THE
Southlawn Lane, Rockville, Md. (Tel. HAzlewood 7-7280)
Purch. Agent: G. M. Chadwick
V. P.-Sales: Henry Clark GS, GH

J. M. LOGE, SOUND ENGINEERS
2171 W. Washington Blvd., Los Angeles 18, Calif. (Tel. REpublic 4-9178)
Purch. Agent: Merle Adkins
Dir.-Sales: J. M. Loge

LOGETRONICS INC.
500 E. Monroe Ave., Alexandria, Va. (Tel. TE 6-5180)
Purch. Agent: Arthur Hall, Jr.
Dir.-Sales: Gordon O. F. Johnson GS

LONDON CHEMICAL CO., INC.
1535 N. 31st Ave., Melrose Park, Ill. (Tel. AUstin 7-9495)
Purch. Agent: R. I. Schub
Sales Mgr.: K. W. Anderson MF, PS, GS, GH

LONE STAR PLASTICS CO. INC.
124 Roberts Cut Off Rd., P. O. Box 9817, Fort Worth, Texas (Tel. PE 2-1437)
Purch. Agent: Mrs. Catherine Hare
Sales Mgr.: W. P. Fralia MM

THOMAS J. LONG, INC.
215 Stonehinge Lane, Carle Place, L. I., N. Y. (Tel. EDgewood 4-2300)
Asst. to V. P.: John J. Skelly
Sales Mgr.: Norman A. Terry MM

LONGREN AIRCRAFT CO., INC.
24751 Crenshaw Blvd., Torrance, Calif. (Tel. NEvada 6-0241)
Mgr.-Customer Relations: D. N. Ninteman
Purch. Agent: James M. Crawford MF, GS, GH, R&D

LORD MFG. CO.
1635 W. 12th St., Erie, Pa. (Tel. 62-911)
Adv. Mgr.: J. P. Cooney

LOUTHAN MFG. CO., THE, DIV.-FERRO CORP.
2000 Harvey Ave., East Liverpool, Ohio (Tel. FUlton 5-1538)
Supt.-Purch.: Leonard Kupchinsky
Works Mgr.: Fred A. Layne PS, R&D

LOVEJOY FLEXIBLE COUPLING CO.
4949 W. Lake St., Chicago 44, Ill. (Tel. ES 9-3010)
V. P.-Purch.: C. P. Hennessy
Purch. Agent: Fred Spaulding
V. P.-Sales: W. B. Briggs — **GS, GH**

LOVEJOY TOOL CO., INC.
Springfield, Vt. (Tel. TUrner 5-2195)
Sales: C. Jenness Cameron

LUCAS AIRCRAFT SUPPLY CO.
17311 S. Main St., Gardena, Calif. (Tel. FAculty 1-0080)
Gen. Mgr.: Frank E. Briney
Purch. Agent: M. A. Abata
MF, WN, PS, GS, GH, GE, CO, TS, TR, MM, R&D

LUKENS STEEL CO.
1st Ave., Coatesville, Pa. (Tel. 2000)
Purch. Agent: Albert Gudal
Dir.-Purch.: Edmund Pfeifer
Supvr.-Stores & Material: Thomas A. O'Hara
Buyers: Wilmer Montgomery, John M. Davis & Donald Davis — **MM**

LUMATRON ELECTRONICS, INC.
68 Urban Ave., Westbury, L. I., N. Y. (Tel. EDgewood 4-3100)
Purch. Agent: Frank Ruggiere
Sales: Gerard G. Leeds — **TS, R&D**

LUMINOUS RESINS INC.
166 W. Washington St., Chicago, Ill. (Tel. DE 2-4667)
Pres.: W. A. McCallum — **CO, R&D**

LUNDEY ASSOCIATES INC.
694 Main St., Waltham 54, Mass. (Tel. TWinbrook 3-6064)
Purch. Agent: E. J. W. Grenda — **PS, GE, TR**

LUNDY MFG. CORP.
Glen Head, L. I., N. Y. (Tel. ORiole 6-1440)
Purch. Agent: Joseph A. Barbato
Buyers: Durell Piersall & Thomas Rogers
Pres.: R. C. Barbato — **GS, GH, R&D**

LUNN LAMINATES, INC.
Oakwood Rd. & W. 11th St., Huntington Station, N. Y. (Tel. HAmilton 3-7200)
Purch. Agent: Edward W. Kirchner
Pres.: James S. Lunn — **MF, PS, GS, GH, GE, TS, TR**

LURIA ENGRG. CO.
1010 Vermont Ave., N. W., Washington 5, D. C.
Purch. Dept.: P. O. Box 800, Main Office, Bethlehem, Pa. (Tel. UNiversity 7-4651)
Dir.-Purch.: Earl Woolery
V. P.-Sales: Charles H. Ketcham, Jr. — **GS**

LURIA ENGRG. CO.
1745 Eaton Ave., Bethlehem, Pa. (Tel. UNiversity 7-4651)
Purch. Agent: C. E. Topping
Asst. to Purch. Agent: R. R. Bergenstock
Buyers: C. A. Moyer & D. S. Luria
V. P.-Sales: E. G. Ball — **MF, WN, PS, GS, GH, TS**

LUTHER MFG. CO.
7312 Varna Ave., North Hollywood, Calif. (Tel. POplar 5-4265)
Purch. Agent: Russell H. Reid
Chief Engr.: Neil Curry

LUX CLOCK MFG. CO., INC.
95 Johnson St., Waterbury, Conn. (Tel. PL 6-3661)
Purch. Agent: Arthur Kunkel, Jr.
Asst. Purch. Agent: Carl Hungerford
Indsl. Sales Mgr.: Eugene T. Crandall

LUZERNE RUBBER CO.
Muirhead Ave., Trenton, N. J. (Tel. EXport 2-4131)
Purch. Agent: William Gummere, Jr.
Sales Mgr.: M. J. Kearney, Jr. — **MM**

***LYCOMING DIV., AVCO MFG. CORP.**
550 S. Main St., Stratford, Conn. (Tel. DRexel 8-8211)
Dir.-Material: Frank Larkins
Purch. Mgr.: George Rapuand
V. P.-Sales: H. Webster Crum — **MF, WN, GS, MM**
*(See 3rd Cover for Advertisement)

R. H. LYNCH MFG. CO.
7831 E. Arroyo Dr., South San Gabriel, Calif. (Tel. AT 0-3810)
Pres.: R. H. Lynch
Sales: J. W. Lynch

LYNCH CARRIER SYSTEMS INC.
695 Bryant St., San Francisco 7, Calif. (Tel. EXbrook 7-1471)
Purch. Agent: J. E. Gilchrist
Sales Mgr.: E. B. Stone

LYNCOACH & TRUCK CO. INC.
443 Chestnut, Oneonta, N. Y. (Tel. 1257)
Purch. Agent: Royce Strait
Pres.: James Friery
Sales Mgr.: Charles MacLean — **GS, GH**

LYNDON AIRCRAFT, INC.
140 Clifford St., Newark 5, N. J. (Tel. MI 2-4090)
Purch. Agent: Wm. O'Neill
Pres.: Arthur MacArthur
MF, WN, PS, GS, GH, GE, TS, TR

LYON VAN & STORAGE CO., AIRCRAFT DIV.
2701 N. Ontario St., Burbank, Calif. (Tel. VIctoria 9-3317)
Prod. Mgr.: William F. McCann
Gen. Mgr.: Ralph C. Butler

LYTLE ENGRG. & MFG. CO.
1404 San Mateo, S. E., Albuquerque, N. Mex. (Tel. ALpine 5-1671)
Purch. Agent: Perry Weaver
Div. Mgr.-Sales: L. V. Julihn
MF, WN, PS, GS, GH, GE, CO, TS, TR

MB MFG. CO.
781 Whalley Ave., New Haven 8, Conn. (Tel. FUlton 9-1511)
Mgr.-Purch.: Carl Verderame
Aircraft Sales Mgr.: T. MacDonald
Sales Mgr.-Vibration Test Equip.: A. C. Deichmiller
MF, PS, CO, TS, TR

M. C. MFG. CO.
P. O. Box 126, 118 Indianwood Rd., Lake Orion, Mich. (Tel. MYrtle 2-2711)
Buyer: R. Rhodes
Sales: H. P. Ott — **WN, PS, GE**

MF ELECTRONICS CO.
122 E. 25th St., New York 10, N. Y. (Tel. GRamercy 3-5899)
Chief Engr.: Martin J. Finkelstein
GH, GE, CO, TS, TR

MPM, INC.
9110 George Ave., Cleveland 5, O. (Tel. BRoadway 1-4456)
V. P.-Purch.: A. B. Cook
Purch. Agent: F. K. Lawton
Sales Engr.: J. M. Van Walshauser

M & Q PLASTIC PRODUCTS
Bannard St., Freehold, N. J. (Tel. FReehold 8-6664)
V. P.-Purch.: William Menges
Pres.: Frank Dunn — **MM**

MSA RESEARCH CORP.
Callery, Pa. (Tel. EVans City 3510)
Buyer: E. L. Oviatt
Dir.-Mktg.: C. H. Staub — **MM, R&D**

M-W LABS., INC.
1824 N. Milwaukee Ave., Chicago, Ill. (Tel. DIckens 2-4020)
Plant Supt.: Norbert Sajdera
Sales Mgr.: George W. Halston — **MF, WN**

MAAS & WALDSTEIN CO.
2121 McCarter Hwy., Newark 4, N. J. (Tel. HUmbolt 4-1600)
Sales Mgr.: Don Volino — **MM**

MACARR, INC.
2543-45 Boston Rd., New York 67, N. Y. (Tel. OL 3-3306)
Purch. Agent: Phil Bruno — **GS**

MACHINE PRODUCTS DIV., NEW HAVEN TRAP ROCK CO.
Route 80, N. Branford, Conn. (Tel. HUbbard 8-1692)
Purch. Agent: S. J. Barcsansky
Div. Sales Mgr.: D. A. Briggs — **MF, PS, GH**

MACHINERY SALES & ENGRG. CO.
422 Empire Bldg., Pittsburgh 22, Pa. (Tel. ATlantic 1-5586)
Engr.: Carl Anders

MACK TRUCKS, INC., GOV'T DIV.
1825 Conn. Ave., N. W., Washington 9, D. C. (Tel. HUdson 3-6200)
Mgr.-Gov't Div.: Richard H. McMahon

MACKAY RESEARCH LABS.
P. O. Box 738, Benson, Ariz.
Dir.-Purch.: Diane MacKay
Dir.-Sales: Sanders MacKay — **R&D**

MACLEOD & HANOPOL, INC.
10 Roland St., Charlestown 29, Mass. (Tel. MO 6-2171)
Pres.: A. D. MacLeod — **TS**

MACWHYTE WIRE ROPE CO.
2906 14th Ave., Kenosha, Wisc. (Tel. OLympic 4-5381)
Purch. Agent: John Goodwin
V. P.-Sales: F. D. Holden — **MM**

MAGEE-BRALLA & ASSOCIATES
3361 National Ave., San Diego 13, Calif. (Tel. BE 3-7769)
Partners: Robert C. Bralla & J. Rodgers Magee
GS, R&D

MAGLINE INC.
1802 Mercer St., Pinconning, Mich. (Tel. TRiangle 9-2411)
Purch. Agent: R. A. Austin
Sales Mgr.: F. A. Reger — **MF, WN, PS, GS, MM**

MAGNAFLUX CORP.
7300 W. Lawrence Ave., Chicago 31, Ill. (Tel. UNderhill 7-8000)
Purch. Agent: C. D. Ceske
Asst. Purch. Agent: L. Ondacek
V. P.-Sales & Mktg.: R. O. Schiebel — **TS**

MAGNASYNC MFG. CO., LTD.
5546 Satsuma Ave., N. Hollywood, Calif. (Tel. STanley 7-5493)
Electronics Purch.: George Duerr
Mechanical Purch.: Louis Schirm
Sales Mgr.: Howard V. Auchstetter
MF, PS, GS, GH, GE, CO, TS, TR

MAGNAVOX CO., THE
2131 Bueter Rd., Ft. Wayne, Ind. (Tel. E3967)
Dir.-Purch.: Warren Friebel (Tel. E9721)
Mgr.-Gov't. Div.-Sales: David W. Martin
GE, CO, TS, R&D

MAGNECRAFT ELECTRIC CO.
3352 W. Grand Ave., Chicago 51, Ill. (Tel. EVerglade 4-6868)
Buyer: R. D. Splitt
Sales: H. D. Steinback — **GE, TR**

MAGNETIC CONTROLS CO.
6405 Cambridge St., Minneapolis 26, Minn. (Tel. WE 9-4691)
Purch. Agent: T. D. O'Fallon
Buyer: LaVerne Rogers
Sales Mgr.: G. R. Stoltenberg — **GS, GE**

MAGNETIC CORE CORP.
John & Lawrence Sts., Newburgh, N. Y. (Tel. NEwburgh 5116)
Purch. Agent: R. G. Burdick
Sales: Robert Webb — **GE, MM**

MAGNETIC DEVICES, INC.
712 East St., Frederick, Md. (Tel. MO 2-2144)
Purch. & Sales Dept.: F. J. Cook — **GS, GH**

MAGNETIC INSTRUMENT CO., INC.
546 Commerce St., Thornwood, N. Y. (Tel. ROgers 9-5312)
Purch. Agent: Richard D. Levine
Sales Mgr.: Robert J. Levine — **GH, TS, R&D**

MAGNETIC RESEARCH CORP.
3160 W. El Segundo Blvd., Hawthorne, Calif. (Tel. OSborne 5-1171)
Purch. Agent: James Wirosko
Sales Mgr.: William E. Brown — **GS, TR, R&D**

MAGNETIC SEAL CORP.
301 Sowams Rd., Barrington, R. I. (Tel. CHerry 5-4800)
Purch. Agent: Everett E. Comey (Tel. CHerry 5-4801)
Pres.-Sales: George E. Colby — **MF, PS, GS**

MAGNETIC SHIELD DIV.-PERFECTION MICA CO.
1322 N. Elston Ave., Chicago 22, Ill. (Tel. EVerglade 4-2122)
Purch. Agent: Henry Hucksold
MF, WN, PS, GS, GE, CO, TS, TR

MAGNETICO, INC.
6 Richter Ct., E. Northport, L. I., N. Y. (Tel. ANdrew 1-4502)
V. P.: Mark A. Barry
Mgr.-Amplifier Div.: E. Daparma — **GE, TS, TR**

MAGNETICS, INC.
Butler, Pa. (Tel. 7-3787)
Purch. Agent: W. J. Allen (Tel. 7-1745)
Dir.-Mktg.: R. W. Olmsted
Sales Prom. Mgr.: James W. Graham — **TR, MM**

MAGNETICS, INC., CONTROL DIV.
Butler, Pa. (Tel. 7-3787)
Purch. Agent: W. J. Allen (Tel. 7-1745)
Dir.-Sales Mktg.: R. W. Olmstead — **TR, MM**

MAGNETROL, INC.
2110 S. Marshall Blvd., Chicago 23, Ill. (Tel. BIshop 7-4000)

CODING

Missile Frame	MF
Warhead & Nose Cone	WN
Propulsion System	PS
Ground Support	GS
Ground Handling	GH
Guidance Equipment	GE
Checkout Equipment	CO
Test Equipment	TS
Tracking & Telemetering	TR
Research & Development	R&D
Materials & Metals	MM

Purch. Agent: C. F. Sopinski
Sales Mgr.: Lester E. Stybr PS, GE

MAGTROL, INC.
240 Seneca St., Buffalo 4, N. Y. (Tel. MOhawk 7451)
Purch. Agent: James Laughlin
Sales Mgr.: John E. Traise GE, CO, TS

MAICO ELECTRONICS, INC.
21 N. 3rd St., Minneapolis 1, Minn. (Tel. FEderal 9-7041)
V. P.-Purch. & Industrial Sales: J. T. Utne
Purch. Agent: John M. Wheeler
Asst. Purch. Agent: William E. Cunningham
GS, TR, R&D

MAIDA DEVELOPMENT CO.
214 Academy St., Hampton, Va. (Tel. PArk 3-0785)
Purch. Agent: R. J. Clapton
Pres.: F. X. Maida

MALCO MANUFACTURING CO.
4025 W. Lake St., Chicago 24, Ill. (Tel. Van Buren 6-9300)
Purch. Agent: Walter J. Kulins
Sales Mgr.: Anthony Daidone MM, R&D

P. R. MALLORY & CO. INC.
3037 E. Washington St., Indianapolis 6, Ind. (Tel. MElrose 6-5353)
Dir.-Purch.: George C. Mercer
Capacitor Dept. Purch. Agent: C. A. Rieman
Purch. Mgr.-Metallurgical Div.: W. J. Topmiller
V. P.-Marketing: H. C. Buell
MF, WN, PS, GS, GH, GE, CO, TS, TR

***MALLORY-SHARON METALS CORP.**
980 Warren Ave., Niles, O. (Tel. OL 2-9951)
V. P.: G. B. Brown
Dir.-Purch. & Traffic: B. E. Marquis MF, MM
*(See Page 8 for Advertisement)

MANGER ELECTRIC CO.
Miller St., Stamford, Conn. (Tel. FIreside 8-7761)
Purch. Agent: Richard Keeler
Sales Mgr.: B. L. Manger MF, PS, GS, TR

MANSFIELD FABRICATORS, INC.
541 Grant Ave., Mansfield, Ohio
V. P.-Sales: S. F. Bird

MANSON LABORATORIES, INC.
375 Fairfield Ave., Stamford, Conn. (Tel. DAvis 5-1391)
M. Leroy CO, TS, TR, R&D

MARATHON BATTERY CO.
840 Henrietta St., Wausau, Wisc. (Tel. 2-1071)
Purch. Agent: C. W. Piehl
Asst. Sales Mgr.: A. H. McEachron
Secy.-Treas.: E. D. McEachron TR

MARBLETTE CORP., THE
37-31 30th St., Long Island City 1, N. Y. (Tel. STillwell 4-8100)
Research Dir.: Max Hilrich MF

MARBON CHEMICAL DIV.-BORG-WARNER CORP.
P. O. Box 68, Washington, W. Va. (Tel. GArfield 2-5401)
Dir.-Purch.: Rhoda M. Stewart
V. P. & Sales Mgr.: D. M. Pratt
Sales Mgr.: W. A. Suiter MF

MARCO INDUSTRIES CO.
207 S. Helena St., Anaheim, Calif. (Tel. KEystone 5-6037)
Purch. Agent & Prod. Supt.: F. C. Loehnig
Sales Mgr.: W. W. Bowles
MF, PS, GS, GH, GE, TS, TR

MARCONI INSTRUMENTS
111 Cedar Lane, Englewood, N. J. (Tel. LOwell 7-0607)
Mgr.-Purch.: R. J. Bailey
Sales Mgr.: W. A. Buck TR

MARGINATOR CO.
1121 W. Magnolia Blvd., Burbank, Calif. (Tel. VIctoria 9-2877)
Pres.: Stanley Runyan
V. P.-Sales: Harold R. Foy TS

MARION INSTRUMENT DIV.-MINNEAPOLIS-HONEYWELL REGULATOR CO.
Manchester, N. H. (Tel. NAtional 5-6971)
Purch. Agent: C. Heath
Buyer: R. Mahoney
V. P.-Sales: E. S. Maury GS, GE, CO, TS, TR

MARK PRODUCTS CO.
6412 W. Lincoln Ave., Morton Grove, Ill. (Tel. ORchard 5-4999)
E. F. Harris GS, TR

MARKEM MACHINE CO.
150 Congress St., Keene, N. H. (Tel. ELmwood 2-1130)
Purch. Agent: C. E. Titcomb
Gen. Sales Mgr.: Robert Mensel

MARKITE CORP.
155 Waverly Pl., New York 14, N. Y. (Tel. ORegon 5-1384)
Purch. Agent: Jules Livingston
V. P.-Sales: Herbert A. Gottschall
GS, GE, CO, TS, TR, R&D

MARLIN-ROCKWELL CORP.
402 Chandler St., Jamestown, N. Y. (Tel. 61-541)
Dir.-Purch.: C. A. Berg
Purch. Agent: G. J. Paquin
Asst. Purch. Agent: J. C. Slagle
V. P. & Gen. Sales Mgr.: B. J. Shallow
PS, GE, R&D

MARLO COIL CO.
7100 S. Grand Ave., St. Louis 11, Mo. (Tel. VE 2-5000)
Purch. Agent: K. Guillerming
V. P.-Sales: L. C. Pellegrini

MARMAN DIV., AEROQUIP CORP.
11214 Exposition Blvd., Los Angeles 64, Calif. (Tel. BRadshaw 2-8511)
Purch. Agent: W. E. Flaherty
Aircraft Sales Mgr.: Ted J. Josalle
MF, GS, GH, MM, R&D

MAROTTA VALVE CORP.
Boonton Ave., Boonton, N. J. (Tel. DEerfield 4-2791)
Purch. Agent: Harold Richards
Sales Mgr.: Del Olson GE, TS

MARQUARDT AIRCRAFT CO.
16555 Saticoy St., Van Nuys, Calif. (STate 1-2121)
Mgr.-Materiel: R. G. Francis
Mgr.-Materiel: P. C. Taylor (Ogden Div., Ogden, Utah, Tel. EXport 4-4511)
Purch. Agent: Wayne Jordan (Pomona Div., Pomona, Calif., Tel. LYcoming 3-1311)
PS, GS, CO, TS, R&D

JAS. P. MARSH CORP.
3501 Howard St., Skokie, Ill. (Tel. ORchard 3-4300)
Purch. Agent: P. Keppeler
Asst. Purch. Agent: M. Kinnison
V. P.-Sales: R. E. Barnett GS, GH, TS

MARTIN CO., THE
Middle River Plant, Baltimore 3, Md. (Tel. MUrdock 7-3800)
Dir.-Procurement: H. B. Gunther
Dir.-Sales: C. H. Welling
V. P.-Sales & Service: Jess W. Sweetser
MF, WN, PS, GS, GH, GE, CO, TS, TR, R&D

MARTIN CO., THE, DENVER DIV.
P. O. Box 179, Denver 1, Colo. (Tel. PYramid 4-5211)
Dir.-Proc. Div.: C. E. Bloomer
Dir.-Sales Div.: G. J. Rauschenbach
MF, GS, GH, CO, TS, R&D

MARTIN CO., THE, ORLANDO DIV.
P. O. Box 5837, Orlando, Fla. (Tel. CHerry 1-2411)
Dir.-Procurement: Edward R. McDonald
Dir.-Sales & Weapon System Support: C. O. Wingate
MF, WN, PS, GS, GH, GE, CO, TS, TR, MM, R&D

MARVEL ENGRG. CO.
7227 N. Hamlin Ave., Chicago 45, Ill. (Tel. JUniper 8-6023)
Head-Sales: R. T. Sochor PS, GS

MARYLAND ETCHING CO., INC.
Eudowood Lane, P. O. Box 6737, Towson 4, Md. (Tel. VAlley 5-0700)
V. P. & Secy.: C. A. Anderson
Sales Mgr.: H. J. McCaughin

MARYLAND LAVA CO.
Box 127-MDG, Bel Air, Md. (Tel. Bel Air 1441)
Head-Purch.: J. B. Dinning MF, WN, PS, GE, TR

MASON-NEILAN
Nahatan St., Norwood, Mass. (Tel. NOrwood 7-4600)
Purch. Agent: F. J. Kenney
Asst. Purch. Agent: L. Rocheleau
Sales Mgr.: A. B. Powell
V. P.-Sales: C. W. Gram (Tel. ELdorado 5-1525) New York City GS

MASSA DIV.-COHU ELECTRONICS, INC.
5 Fottler Rd., Hingham, Mass. (Tel. RIverview 9-4800)
Purch. Agent: Robert R. Thomas
V. P. & Gen. Mgr.: Ernest A. Massa
Buyer: Herbert Phillips
WN, GS, GH, GE, CO, TS, TR, R&D

MASSACHUSETTS GEAR & TOOL CO., DIV.-GEARTRONICS CORP.
918 Main St., W. Concord, Mass. (Tel. TWinoaks 7-2971)
Purch. Agent: G. Reid
Sales Mgr.: F. H. Kean

MAST DEVELOPMENT CO., INC.
2212 E. 12th St., Davenport 26, Iowa (Tel. 3-9729)
Pres.: Gifford M. Mast
Purch. Agent: Vernon W. Fier
Asst. Gen. Mgr.-Sales: Leo E. Hubner
GS, GH, CO, TS, TR, R&D

MASTER PRODUCTS CORP., THE
1100 Norwood St., P. O. Box 9757, Ft. Worth 7, Tex. (Tel. EDison 2-7101)
Sales Mgr.: Jess Fatherree
MF, WN, PS, GS, GH, GE, R&D

MASTER SPECIALTIES CO.
956 E. 108th St., Los Angeles 59, Calif. (Tel. LOrain 4-4481)
Purch. Agent: William Smith
Head-Sales: T. W. Hallerberg GS, CO, TS

MASTER TAPE PRINTERS
3400 N. Halsted St., Chicago 13, Ill. (Tel. EAstgate 7-3322)
Gen. Mgr.: Louis J. Dorfmeister
Head-Sales: Ruth G. Dorfmeister
MF, PS, TS, TR, MM

MATHESON CO., INC., THE
932 Paterson Plank Rd., E. Rutherford, N. J. (Tel. WEbster 3-2400)
Purch. Agent: A. Gerard
Dir.-Engrg.: A. Mossman
V. P.-Sales: H. R. Pearce PS, MM, R&D

JAS. H. MATTHEWS & CO.
3764 Forbes Ave., Pittsburgh 13, Pa. (Tel. MUseum 1-8500)
Purch. Agent: G. Grey, 3942 Forbes Ave., Pittsburgh 13, Pa.
V. P.-Sales: T. J. Miers MM

W. L. MAXSON CORP., THE
475 10th Ave., New York 18, N. Y. (Tel. LOngacre 5-1900)
Purch. Mgr.: C. E. Panzica
Sales Mgr.: W. P. McNally
MF, WN, PS, GS, GH, GE, CO, TS, TR, R&D

***McCORMICK SELPH ASSOCIATES, INC.**
Hollister Airport, Hollister, Calif. (Tel. MErcury 7-3731)
Purch. Agent: Jim McConnell
Dir.-Applications Engrg.: Hubert I. Bennett
MF, WN, PS, GS, R&D
*(See 4th Cover for Advertisement)

McCOY ELECTRONICS CO.
Mount Holly Springs, Pa. (Tel. HUnter 6-3411)
Purch. Agent: Erwin C. Hess
Sales Mgr.: David B. Jacoby GS, GE, TS, TR

McCULLOCH MOTORS CORP.
6101 W. Century, Los Angeles 45, Calif.

JULIAN A. McDERMOTT CORP.
1639 Stephen St., Ridgewood, L. I. 27, N. Y. (Tel. GL 6-3606)
Purch. Agent: R. Wilke
Head-Sales: R. Stevens GH

McDONNELL AIRCRAFT CORP.
Lambert — St. Louis Airport, Box 516, St. Louis 66, Mo. (Tel. PErshing 1-2121)
V. P.-Procurement & Quality Control: Lloyd Harrison
Mgr.-Purch.: W. J. Gamewell
Mgr.-Subcontracts: W. P. Becker
V. P.-Customer Service: J. F. Aldridge

McDOWELL-WELLMAN COMPANIES, THE
113 St. Clair Ave., N. E., Cleveland 14, O. (Tel. MAin 1-9934)
Dir.-Purch.: S. R. McKinnon
Asst. to Pres.: J. R. Perkins GH

McGILL MFG., CO., INC., BEARING DIV.
600 N. Lafayette St., Valparaiso, Ind. (Tel. 2-6401)
Sales Mgr.: M. L. Brody

McKENNA LABS.
2503 Main St., Santa Monica, Calif. (Tel. EXbrook 9-8846)
Pres.: A. G. McKenna
Sales Engr.: Walt McHenry GS, GE, TS, TR

McLEAN DEVELOPMENT LABS., INC.
P. O. Box 206, Strong Ave., Copiague, L. I., N. Y. (Tel. LIndenhurst 5-4300)
Mfg. Mgr.: Joseph A. Barile
Pres.: H. P. Dolan TS, R&D

McLEAN ENGRG. LABORATORIES
P. O. Box 228, 70 Washington Rd., Princeton, N. J. (Tel. WAlnut 4-4440)
Purch.: A. Donald Hay
Sales: W. B. Eckenhoff PS, TR

McMILLAN INDUSTRIAL CORP.
Brownville Ave., Ipswich, Mass. (Tel. ELmwood 6-2926)
Purch. Agent: Brian Abbott
V. P.-Sales: Arthur M. Brink GE, TS, MM

McPHERSON CORP.
1361 S. Broadway St., Denver, Colo. (Tel. PE 3-2481)
V. P.-Purch.: E. Byron McPherson
Sales Mgr.: W. H. Franz, Jr. **MM**

MEASUREMENTS DIV., McGRAW EDISON CO.
Boonton, N. J. (Tel. Deerfield 4-2131)
Purch. Agent: H. P. Irving
Div. Sales Mgr.: Carl M. Milner **TS**

MECHANICAL AIR CONTROLS, INC.
10030 Capital Ave., (Oak Park) Detroit 37, Mich. (Tel. JOrdan 4-6858)
Purch. Agent: Larry Newton
Sales Mgr.: Arthur R. Schiefelbein
PS, GS, GH, TS, R&D

MECHANICAL DIV.-GENERAL MILLS, INC.
1620 Central Ave., Minneapolis 13, Minn. (Tel. STerling 9-8811)
Mgr.-Purch.: A. E. Wickman
Dir.-Sales: E. F. Coy
MF, WN, PS, GS, GE, CO, TS, TR

MECHANICAL PRODUCTS, INC.
1824 River St., Jackson, Mich. (Tel. STate 2-0391)
Purch. Agent: C. C. Frost
Sales Engr.: P. R. Watson **GS, CO, TS, TR**

MECHANICS RESEARCH DEPT., AMERICAN MACHINE & FOUNDRY CO.
2510 S. Wabash Ave., Chicago 5, Ill. (Tel. WEbster 9-5385)
Dir.: P. Rosenberg

MECHANICS UNIVERSAL JOINT DIV., BORG-WARNER CORP.
2020 Harrison Ave., Rockford, Ill. (Tel. WOodland 3-0431)
Dir.-Purch.: E. O. Van Dusen
Asst. Dir.-Purch.: G. R. Fuehrer
Pres. & Gen. Mgr.: F. W. Rickard **GH**

MEDICAL SUPPLY CO.
1027 W. State St., Rockford, Ill. (Tel. WOodland 3-9697)
Purch. Agent: C. Fred Avery
V. P.-Sales: Richard G. Babbitt

MELETRON CORP.
950 N. Highland Ave., Los Angeles 38, Calif. (Tel. HOllywood 3-4841)
Purch. Agent: Don Britton
Dir.-Market Research: Jack Nelson
MF, WN, PS, GS, GH, GE, CO, TS

MENASCO MFG. CO.
805 S. San Fernando Blvd., Burbank, Calif. (Tel. VIctoria 9-3261)
Dir.-Materiel Div.: Thomas E. Merrick
Purch. Agent: William Caprine
Purch. Dept. (Tex. Div.): Edward Gibson, Box 7397 Sylvania Sta., Ft. Worth (Tel. ATlas 4-3471)
V. P.-Sales: Jack I. Hamilton (Burbank) **WN, PS**

J. E. MENAUGH CO.
4555 N. Broadway, Chicago 40, Ill. (Tel. UPtown 8-2343)
Purch.: M. M. Maher
Sales: D. A. MacIntyre **PS**

MENLO RESEARCH LABORATORY
P. O. Box 522, Menlo Park, Calif. (Tel. DA 1-0280)
Dir.-Purch. & Sales: Charles Weeks
MF, GH, CO, MM

MEPCO, INC.
37 Abbett Ave., Morristown, N. J. (Tel. JEfferson 9-2000)
Purch. Agent: J. Brozek
Sales Mgr.: E. L. Beaudry, Jr. **GE**

MERCAST MFG. CORP.
2620 1st St., La Verne, Calif. (Tel. LYcoming 3-4521)
Purch. Agent: P. L. Cunningham
Sales Mgr.: Stan Harding **MF, PS**

MERCK & CO., INC., ELECTRONIC CHEMICALS DIV.
Central Ave., Rahway, N. J. (Tel. FUlton 1-5000)
Dir.-Electronic Chem. Div.: Dr. George Krsek
Sales Mgr.: C. A. Gray **MM**

MERCURY AIR PARTS CO., INC.
P. O. Box 135, 9310 W. Jefferson Blvd., Culver City, Calif. (Tel. TE 0-5923)
Purch. Agent: I. A. Cole
Sales Mgr.: R. Cohen **MF, GS, GH, MM**

MERCURY TOOL & MFG. CORP.
124 Marine St., P. O. Box 95, Farmingdale, N. Y. (Tel. CHapel 9-1820)
V. P.-Purch.: Frank J. Fitterer (Tel. CHapel 9-1821)
Sales: Seri S. LoDato **MF, WN, PS, GS, GH, MM**

MERGENTHALER LINOTYPE CO.
29 Ryerson St., Brooklyn 5, N. Y. (Tel. ULster 5-0300)
Purch.: C. Aiosa
Mgr., Systems Engrg. Dept.: W. O. Grube
GS, GE, CO, R&D

MERIAM INSTRUMENT CO.
10920 Madison Ave., Cleveland 2, Ohio (Tel. ATlantic 1-1100)
Purch. Agent: A. Sousy
Dir.-Sales: Leroy Rogers

MERIDIAN METALCRAFT, INC.
8739 S. Millergrove Dr., Whittier, Calif. (Tel. OXford 2-3761)
Purch. Agent: D. W. Willis
Sales Mgr.: C. M. Peterson **GE, CO, TR, MM, R&D**

MERIT COIL & TRANSFORMER CORP.
2027 Sherman St., Hollywood, Fla. (Tel. Wabash 3-1536)
Purch. Agent: Walter Hendrickson (Tel. Wabash 3-4651)
Sales Mgr.: Charles C. Koch
Asst. Sales Mgr.: Fred Holland **MM, R&D**

MERIX CHEMICAL CO.
2234 E. 75th St., Chicago 49, Ill. (Tel. BAyport 1-8242)
Gen. Mgr.-Purch.: Eric O. Sonneman
Sales Mgr.: E. Arshack **MM, R&D**

MERZ ENGRG., INC.
200 S. Harding St., Indianapolis, Ind. (Tel. ME 2-7431)
Purch. Agent: Murray Davidson
Buyer: Carl Pfeifer
Sales Mgr.: L. B. Vanderhorst **PS, GS**

METAL CARBIDES CORP.
6001 Southern Blvd., Youngstown 12, O. (Tel. STerling 8-6541)
Purch. Agent: H. L. Sprinkel
V. P.-Sales: R. T. Beeghly **MM, R&D**

METAL EDGE INDUSTRIES
Gloucester Pike, Barrington, N. J. (Tel. LIncoln 7-9000)
V. P.-Sales: E. F. Collins **GH**

METAL FABRICATORS CORP.
63 Pond St., Waltham, Mass. (Tel. TWinbrook 3-6800)
Dir.-Sales: Harry Ferguson **MF, GS, GE, TS**

METAL HYDRIDES, INC.
12-24 Congress St., Beverly, Mass. (Tel. WAlker 2-1875)
Purch. Agent: J. A. Crowell
Asst. Purch. Agent: H. J. McLaughlin
Buyer: Sylvia Burke
Mgr.-Tech. Service: H. W. Kruschwitz, Jr.
Engr.-Tech. Service: R. E. Miner **MM, R&D**

METAL SPINNERS, INC.
5015 N. 33rd St., Milwaukee 9, Wisc. (Tel. Hilltop 5-7343)
Purch. Agent: LeRoy E. Mueller
Works Mgr.: D. V. Lawrence
Sales Mgr.: George Lauth **WN, PS, GE, TR**

METAL TEXTILE CORP., ELECTRONICS DIV.
647 E. First Ave., Roselle, N. J. (Tel. CHestnut 5-3000)
Purch. Agent: Minford S. Smith
Prod. Mgr.: A. R. Burghard
Sales Mgr.: William Luke, Jr. **MM**

METAL TREATING INSTITUTE
271 North Ave., New Rochelle, N. Y. (Tel. NEw Rochelle 6-6382)
C. E. Herington **MF, WN, MM, R&D**

METALECTRO LAB.
11423 Vanowen St., N. Hollywood, Calif. (Tel. POplar 5-2430)
Purch. Agent: P. E. Peach
MF, WN, PS, GS, GH, GE, TR, R&D

METAL-GLASS PRODUCTS CO.
3333 Hammond Ave., Elkhart, Ind. (Tel. 2-5510)
Purch. Agent: D. P. Gill
V. P.-Sales: Jay A. Rigdon **MM**

METALLIZING CO. OF LOS ANGELES INC.
1233 S. Boyle Ave., Los Angeles 23, Calif. (Tel. ANgelus 8-7108)
Asst. Mgr.-Purch.: Ray White
Pres.: Richard S. Jensen **MF, MM**

METALLIZING ENGRG. CO., INC.
1101 Prospect Ave., Westbury, N. Y.
Purch. Agent: R. M. Dwyer
Sales Mgr.: R. J. McWaters **MM**

METALLO GASKET CO.
16 Bethany St., New Brunswick, N. J. (Tel. KIlmer 5-7223)
Purch. Agent: S. S. Geipel
Asst. Purch. Agent: S. W. Geipel
Sales Mgr.-Secy.: G. K. Mordas **MF, PS**

METALLURGICAL, INC.
900 E. Hennepin Ave., Minneapolis, Minn. (Tel. FEderal 3-4581)
Controller: M. P. Paulson
Dir.-Sales: Ralph E. Mueller **MF**

METALPHOTO CORP.
6811 Superior Ave., Cleveland 3, Ohio (Tel. UTah 1-7575)
Purch. Agent: Mrs. D. J. Weston
Sales Mgr.: Roger Ferryman **MM**

METALS & CONTROLS CORP.
55 Forest St., Attleboro, Mass. (Tel. 1-2800)
Dir.-Purch.: E. B. Carpenter
Asst. Dir.-Purch.: Rocco Fantaccione
Buyers: William Gorman & Ralph Berry
V. P.-Sales: John Wilson
MF, WN, PS, GS, GH, GE, CO, TS, TR

METALS & CONTROLS CORP., GEN. PLATE DIV.
5565 Forest St., Attleboro, Mass. (Tel. Attleboro 1-2800)
Purch. Agent: E. B. Carpenter
Sales Mgr.: John Wilson **GS, MM**

METALS & CONTROLS CORP., SPENCER DIV.
5565 Forest St., Attleboro, Mass. (Tel. Attleboro 1-2800)
Purch. Agent: E. B. Carpenter
Sales Mgr.: John Wilson **GS, MM**

METAPLAST CO., INC.
34-51 56th St., Woodside 77, N. Y. (Tel. HA 9-0843)
Manager: J. Lester

METAPLAST CORP.
Hatboro, Pa. (Tel. OSborne 5-2416)
Purch. Agent: M. B. Guenther
Plant Mgr.: Wilfred Lobley
V. P.-Sales: Lewis W. Hull **WN, MM, R&D**

METAVAC, INC.
45-68 162nd St., Flushing 58, N. Y. (Tel. FLushing 9-8838)
Purch. Agent: R. Finnegan
Gen. Mgr.-Sales: G. H. Fadel **GE, CO, TS, TR**

METEOR PRODUCTION ENGRG., INC.
1465 S. Vandeventer Ave., St. Louis 10, Mo. (Tel. Jefferson 5-3210)
Chief Engr.: D. Gers
Pres.: Harvey S. Gershenson **GS, CO, TS, R&D**

METERS INC.
5353 N. Keystone Ave., Indianapolis 20, Ind. (Tel. CLifford 5-3570)
Purch. & Sales: F. R. Finehout **GE, CO, TS, TR**

METHODE MFG. CORP.
7447 W. Wilson Ave., Chicago 47, Ill. (Tel. UNderhill 7-9600)
Purch. Agent: A. J. Dudle **MM**

MET-L-WOOD CORP.
6755 W. 65th St., Chicago 38, Ill. (Tel. LUdlow 5-7575)
Purch. Agent: John S. Allen
Sales Mgr.: Dwight O. Williamson **MM**

R. I. METPRO, INC.
230 Toronto Ave., Providence 5, R. I. (Tel. STuart 1-3050)
Pres.: James C. Murphy **MF, PS, TS, TR**

METRON INSTRUMENT CO.
432 Lincoln St., Denver 3, Colo. (Tel. PEarl 3-3764)
Purch. Agent: H. N. Carothers
Sales Mgr.: Edward Pike **GS, CO, TS, R&D**

METRONIX, INC., SUB.-ASSEMBLY PRODUCTS, INC.
75 Wilson Mills Rd., Chesterland, Ohio (Tel. 3-4436)
V. P.-Purch.: Ivan Bezugloff
Pres. & Sales Mgr.: John Saint-Amour
GS, GH, CO, TS

MEYERCORD CO., THE
5323 W. Lake St., Chicago 44, Ill. (Tel. ESterbrook 8-3700)
Purch. Agent: William A. Ortlep
Sales Mgr.: R. A. Knopf

MEYERCORD CO., THE, AMC DIV.
2915 S. Vail Ave., Los Angeles, Calif. (Tel. RAymond 3-8661)

CODING

Missile Frame	MF
Warhead & Nose Cone	WN
Propulsion System	PS
Ground Support	GS
Ground Handling	GH
Guidance Equipment	GE
Checkout Equipment	CO
Test Equipment	TS
Tracking & Telemetering	TR
Research & Development	R&D
Materials & Metals	MM

Purch.: Robert Bell
Div. Mgr.-Sales: John A. Cargill MF

MICA CORP.
4031 Elenda, Culver City, Calif. (Tel. VE 9-5283)
Purch.: Ed Kazarian
Dir.-Mktg.: Milton B. Grossman MF, GE, TS, TR

MICA FABRICATING CO.
53 Central Ave., Rochelle Park, N. J. (Tel. HUbbard 7-5717)
Purch.: M. H. Cymberg
Sales: J. W. Canter MF, WN, PS, GE, TR

MICA INSULATOR DIV.-MINNESOTA MINING & MFG. CO.
797 Broadway, Schenectady 1, N. Y. (Tel. FRanklin 4-4191)
Purch. Agent: Q. F. Jardine
Asst. Purch. Agent: H. Culp
Gen. Mgr.: D. E. Horsford
Sales Mgr.: D. R. Coleman, Jr. MM

MICACRAFT PRODUCTS INC.
701 McCarter Hwy., Newark, N. J. (Tel. MArket 3-6921)
Purch. Agent: N. A. Pomar (Tel. MArket 3-4074)
Sales: C. E. Garneau, Jr. MM

MICHIGAN WIRE CLOTH CO.
2100 Howard St., Detroit 16, Mich. (Tel. TAshmoo 6-6500)
Purch. Agent: Myles Bradly
V. P.-Sales: W. H. Blodgett PS, GS

MICO INSTRUMENT CO.
80 Trowbridge St., Cambridge 38, Mass. (Tel. KIrkland 7-8660)
Purch. Agent: Miss F. E. Beede
Sales Mgr.: R. F. Walker MM

MICRO BALANCING, INC.
191 Herricks Rd., Garden City Park, L. I., N. Y. (Tel. Pioneer 6-0851)
Dir.-Purch.: Leon Santora
V. P.-Sales: D. A. Francis GS

MICRO GEE PRODUCTS, INC.
6319 W. Slausen Ave., P. O. Box 1055, Culver City, Calif. (Tel. EXmont 1-1716)
Chief Engr.: B. W. McFadden GS, GE, CO, R&D

MICRO SWITCH, DIV.-MINNEAPOLIS-HONEYWELL REG. CO.
11 W. Spring St., Freeport, Ill. (Tel. ADams 2-1122)
Purch. Agent: W. L. Young
Sales Mgr.: F. E. Wilsey

MICRO-CIRCUITS CO.
New Buffalo, Mich. (Tel. 272 WI)
Purch. Agent: M. Bradley
Pres.: R. F. Bradley MM

MICRODOT INC.
220 Pasadena Ave., South Pasadena, Calif. (Tel. RYan 1-3351)
Purch. Agent: Robert Batton
Buyer: James Gillis
Asst. Sales Mgr.: George Wedemeyer
V. P.-Sales: Guy M. Martin, Jr. WN, GS, R&D

MICROLAB
71 Okner Pkwy., Livingston, N. J. (Tel. WYman 2-5700)
Purch.: A. Alexander
Sales: Richard C. Hess GE, TR

MICROMETRICAL MFG. CO.
345 S. Main St., Ann Arbor 20, Mich. (Tel. NOrmandy 2-5626)
Purch. Agent: Herman DeMarco
Chief Engr.: Donald Parkes
Exec. V. P.: Fritz A. Zander
Sales Mgr.: Frank W. Kabat TS, R&D

MICRON GEAR CO., INC.
73 Rushmore St., Westbury, L. I., N. Y. (Tel. EDgewood 4-8880)
Purch. Agent: Bill Benjamin
Mgr.-Sales: Milo Amorosia
Gen. Mgr.: Paul Moser

MICROSONICS, INC.
Hingham Ind. Ctr., 349 Lincoln St., Rt. 3A, Hingham, Mass. (Tel. RIverview 9-3100)
Pres.: T. J. Geoghegan
Sales Mgr.: B. P. O'Sullivan GS, GE, TR, R&D

MICROTECH CORP., SUB. FEDERAL-MOGUL-BOWER BEARINGS, INC.
1201 N. Arden Dr., El Monte, Calif. (Tel. Gilbert 3-3081)
Gen. Mgr.: Ralph H. DuBois
Comptroller: Carl H. Sjoberg
Mgr.-Sales: Frank M. Mosier MM

MICROTRAN CO. INC.
145 E. Mineola Ave., Valley Stream, N. Y. (Tel. LO 1-6050)
Purch. Agent: B. Bell
V. P.-Sales: Albert J. Eisenberg GS, TS, TR

MICROWAVE ASSOCIATES, INC.
South Ave., Burlington, Mass. (Tel. BRowning 2-3000)
Purch. Agent: Harry Merchant
V. P.-Mktg.: George S. Kariotis GE, TR

MICROWAVE DEVELOPMENT LABS., INC.
92 Broad St., Babson Park 57, Mass. (Tel. CEdar 5-6252)
Purch. Agent: Abraham Bahm
Buyers: Philip Carson & Harold Lerner
Sales Engr.: John D. Hall MM

MICROWAVE ELECTRONICS DIV., SPERRY GYROSCOPE CO.
Great Neck, N. Y. (Tel. Fieldstone 7-3600)
Purch. Agent: G. C. Hees
Sales Mgr.: George W. Lober

MICRO-WIRE TUNGSTEN & MOLYBDENUM PRODUCTS
301 Crooks Ave., Clifton, N. J. (Tel. PRescott 9-0819)
Stephen H. Meninger MF, WN, PS, GS, GH, GE

MID-CENTURY INSTRUMATIC CORP.
611 Broadway, New York, N. Y. (Tel. SPring 7-4016)
Purch. Agent: E. Nawrocki
Sales Engrg. Mgr.: Charles B. Husick

MIDGET LOUVER CO.
6-8 – Wall St., Norwalk, Conn. (Tel. VOlunteer 6-2342)
Purch.: Miller Mfg. Co., Stratford, Conn.
Sales: Frank J. Scallon

MIDLAND INDUSTRIAL FINISHES CO.
E. Water St., Waukegan, Ill. (Tel. MAjestic 3-4200)
Purch. Agent: W. J. Edwards
Buyer: John Whittaker
Pres.: Edwin O. Robson
V. P. & Gen. Mgr.: G. E. Batzel MM

MIDLAND MFG. CO., INC.
3155 Fiberglas Rd., Kansas City, Kans. (Tel. FInley 2-7950)
Purch. Agent: Harlan F. Ellis
V. P.-Sales: H. G. Humann GE, TR

MIDLAND PAINT & VARNISH CO., THE
3801 E. 91st St., Cleveland 5, O. (Tel. BR 1-4050)
Purch. Agent: Frank S. Glucek MF, PS, GE, TR

MIDVALE-HEPPENSTALL CO.
Nicetown, Philadelphia 40, Pa. (Tel. BAldwin 5-5000)
Gen. Sales Mgr.: Derek G. R. Brigg
Asst. Gen. Sales Mgr.: Kenneth O. Cole MM

MIDWEST GAGE LAB.-METROLOGY SERVICES
2500 W. Washington Blvd., Chicago 12, Ill. (Tel. MO 6-6710)
Purch. Mgr.: R. Miller
Sales Mgr.: E. E. Olds MM

MID-WEST METAL PRODUCTS, INC.
450 E. Donovan Rd., Kansas City 15, Kans. (Tel. MAyfair 1-1980)
Asst. Mgr.-Purch.: H. W. Sanders
Mgr.-Sales: T. H. Minzet GE, TR, R&D

MIDWEST RESEARCH INSTITUTE
425 Volker Blvd., Kansas City 10, Mo. (Tel. LOgan 1-0202)
V. P. & Tech. Dir.: Dr. Max H. Thornton
Admin. Officer: Perry L. Bidstrup
Mgr.-Program Dev.: Richard W. Kunkle R&D

MID-WEST SPRING MFG. CO.
4632-40 S. Western Ave., Chicago 9, Ill. (Tel. LAfayette 3-1743)
Purch. Agent-Chicago Plant: James J. Dunne, Jr.
Purch. Agent-St. Paul Plant: Cliff Reger (Tel. HU 8-2521)
Purch. Agent-Mentone, Ind., Plant: Richard E. Middleton (Tel. EL 3-2415)
Sales: L. J. Castaldi MF, PS

MIDWESTERN INSTRUMENTS, INC.
41st & Sheridan Rd., Tulsa, Okla. (Tel. RIverside 7-1331)
Purch. Agent: B. M. Kennedy
V. P.-Sales: D. M. Holloway CO, TS, TR, R&D

MILAM ELECTRIC MFG. CO.
1100 Elmwood Ave., Providence 7, R. I. (Tel. STuart 1-2284)
V. P.-Purch.: F. B. Foster
Sales: J. A. Ruby MM

MILES REPRODUCER CO. INC.
812 Broadway, New York 3, N. Y. (Tel. SPring 7-7670)
Purch.: J. M. Kuhlik
Sales: H. B. Kuhlik TR

MILGO ELECTRONIC CORP.
7601 N. W. 37th Ave., Miami 35, Fla. (OXford 1-1220)
Purch. Agent: William Kreuter
Buyers: Walter Koth, Ronald Zoll, Herman Farer & James Kivett
Gen. Mgr.-Sales: William L. Rose GS, CO, TS, TR, R&D

FRANKLIN P. MILLER & SON, INC.
36 Meadow St., East Orange, N. J. (Tel. ORange 3-4522)
Purch. Agent: H. Preyer
Sales: H. Galanty

J. W. MILLER CO.
5917 S. Main St., Los Angeles 3, Calif. (Tel. ADams 3-4294)
Purch.: L. G. Crawford, Jr.
Sales: J. R. Hummes MM

SANFORD MILLER CO.
11 Lynch St., Brooklyn 11, N. Y. (Tel. ULster 8-2817) TS

MILLER ASSOCIATES
P. O. Box 369, Lakeville, Conn.
Owner: R. R. Miller
Dir.-Sales: H. M. Miller R&D

MILLER DIAL & NAMEPLATE CO.
4400 N. Temple City Blvd., El Monte, Calif. (Tel. Gilbert 4-4555)
Purch. Agent: Gus Bloomquist
Sales Mgr.: Richard Stevens MM

MILLER ELECTRO-RESEARCH LABS.
5529 S. 5th St., Milwaukee 7, Wisc. (Tel. HUmboldt 3-6303)
A. W. Miller GE, GS

MILLER-ROBINSON CO.
7007 Avalon Blvd., Los Angeles 3, Calif. (Tel. PLeasant 2-6141)
Purch. Agent: J. B. Leavell
Sales Mgr.: Myron B. Adler PS, GS, TE

MILLIPORE FILTER CORP.
Bedford, Mass. (Tel. CRestview 4-8800)
V. P.-Purch.: Walter W. Kenyon
Sales Mgr.: David B. Porter
Office Mgr.: Clifford J. Hughes CO, TS

MILLITEST CORP.
85 Madison Ave., Hempstead, N. Y. (Tel. IVanhoe 9-9672)
Purch. Agent: I. Clinton
Sales Mgr.: J. Hermon TS, R&D

MILMAN ENGRG. CO.
1831 Pontius Ave., Los Angeles 25, Calif. (Tel. GRanite 3-0616)
Partners: Wesley B. Miller & E. I. Bruckman GS

MILMANCO
620 7th Ave., Renton, Wash. (Tel. ALpine 5-8656)
Co-Mgr., Purch. & Sales: Philip B. Lundstrom
Co-Mgr., Purch.: Thomas H. Cooke
Supt.: Robert W. Burman

MILRO CONTROLS CO.
Hawthorne Ave., Park Ridge, N. J. (Tel. PArk Ridge 6-2595)
Purch.: Milton Rosen
Sales Mgr.: E. D. Burdi

MINATRON CORP.
61 Cliveden St., Belle Mead, N. J. (Tel. FLanders 9-6400)
Gen. Mgr.: C. W. Pressey TS, TR

MINCO PRODUCTS, INC.
740 Washington Ave., N., Minneapolis 1, Minn. (Tel. FEderal 8-6753)
Purch. Agent: Robert B. Anderson
V. P.-Sales: Karl Schurr GS, GE, CO, TS, TR

MINCOM DIV., MINNESOTA MINING & MFG. CO.
2049 S. Barrington Ave., Los Angeles, Calif. (Tel. GRanite 9-3751)
Purch. Agent: Ray Hunt
Sales Mgr.: Robert J. Brown TS, TR

MINE SAFETY APPLIANCES CO.
201 N. Braddock Ave., Pittsburgh 8, Pa. (Tel. CH 1-5900)
Purch. Agent (Safety Prod.): J. P. Curran
Purch. Agent (Tech. Prod.): F. J. Guenther
Sales Mgr. (Safety Prod.): F. A. King
Sales Mgr. (Tech. Prod.): N. W. Hartz TS

MINIATURE PRECISION BEARINGS, INC.
Precision Pk., Keene, N. H. (Tel. ELmwood 2-0310)
Purch. Agent: Robert N. Whitney
Sales Mgr.: K. G. Broman WN, GE, TR, R&D

MINICORD CORP. OF AMERICA
1915 Atlantic Ave., Atlantic City, N. J. (Tel. 2-0488)
Dir.-Purch.: William C. Redding, Jr.
V. P.-Sales: William A. Juhrs, Sr. GS

MINNEAPOLIS-HONEYWELL REGULATOR CO., AERONAUTICAL DIV.
2600 Ridgway Rd., Minneapolis 13, Minn. (Tel. STerling 1-8011)
Dir.-Proc.: R. B. Foster
Dir.-Proc.: S. E. Puffer, Inertial Guidance Cntr., St. Petersburg, Fla. (Tel. HEmlock 5-1151)
Purch. Agent: Matt Mehan, Missile Dev. Lab., W. Los Angeles, Calif. (Tel. BRadshaw 2-8667)
Mktg. Mgr.: R. E. Clifford
GS, GH, GE, CO, TS, R&D

MINNEAPOLIS HONEYWELL REGULATOR CO., BOSTON DIV.
40 Life St., Boston 35, Mass. (Tel. ALgonquin 4-5200)
Purch. Agent: E. L. Hanscom
Mktg. Mgr.: C. B. Harrison **GS, GE, TR**

MINNEAPOLIS-HONEYWELL REGULATOR CO., DAVIES LABS. DIV.
10721 Hanna St., Beltsville, Md. (Tel. WEbster 5-2700)
Purch. Agent: John Paszkiet
Sales Mgr.: N. S. Bassett **TS, TR**

MINNEAPOLIS-HONEYWELL REGULATOR CO., INDUSTRIAL DIV.
Wayne & Windrim Aves., Philadelphia 44, Pa. (Tel. DAvenport 9-8300)
Purch. Agent: J. Taws
Sales Mgr.: J. A. Robinson **GH, CO, TS, R&D**

MINNEAPOLIS-HONEYWELL REGULATOR CO., INDUSTRIAL PRODUCT GROUP
Wayne & Windrim Aves., Philadelphia 44, Pa. (Tel. DAvenport 9-8300)
Purch. Agent: J. H. Taws
Sales Mgr.: J. A. Robinson **TS**

MINNEAPOLIS-HONEYWELL REGULATOR CO., ORDNANCE DIV.
600 2nd St., N., Hopkins, Minn. (Tel. WEstport 8-3571)
Mgr.-Proc.: J. F. Barrett
Purch. Agent: Clifford Swisher, Minneapolis-Honeywell Ordnance Missile Engrg. Ctr., Duarte, Calif. (Tel. ELliott 9-5311)
Dir.-Serv. Engrg.: L. E. Sheehan
MF, WN, GS, CO, TE, TR, R&D

MINNEAPOLIS-HONEYWELL REGULATOR CO., SEMICONDUCTOR PRODUCTS DIV.
2753 4th Ave., S., Minneapolis, Minn. (Tel. FEderal 2-5225)
Mgr.-Purch.: M. E. Knutson
Asst. Purch. Agent-Raw Materials: Wilbur Smisek
Sales Mgr.: R. O. Anderson

MINNESOTA MINING & MFG. CO.
900 Bush Ave., St. Paul 1, Minn. (Tel. PRospect 6-8511)
Sales Mgr.: J. M. Rogers
Prod. Mgr.: John M. Thompson **MM**

MINNESOTA MINING & MFG. CO.-ADHESIVES, COATINGS & SEALERS DIV.
900 Bush Ave., St. Paul, Minn. (Tel. PRospect 6-8511)
Sales Mgr.-Aircraft Prods.: A. O. Fuhrmann
Gen. Sales Mgr.: C. A. Kelley

MINNESOTA RUBBER CO.
3630 Wooddale Ave., Minneapolis 16, Minn. (Tel. WEst 9-6781)
Purch. Agent: H. L. Stocking
Dir.-Sales: Richard G. Wells **MM**

MIRATEL, INC.
1080 Dionne St., St. Paul 13, Minn. (Tel. HUmboldt 9-7417)
Purch. Agent: N. C. Ritter
Sales Mgr.: H. E. Kurzweg **GE, TR, R&D**

***MIRAX CHEM. PROD. CORP., ELECTRO-MECH. DIV.; METAL CONTAINER DIV.**
4999 Fyler Ave., St. Louis 9, Mo. (Tel. PLateau 2-1500)
Dir.-Purch.: Oliver C. Clerc
V. P.-Engrg.: Harvey M. Gillerman
WN, PS, GS, GH, GE, TS, R&D
*(See Page 79 for Advertisement)

MISCO PRECISION CASTING CO.
116 W. Gibbs St., White Hall, Mich. (Tel. 2-1515)
Purch. Agent: Howard Bartholomew
Purch. Agent-Muskegon, Mich.: M. Simms (Tel. 6-3541)
V. P.-Sales: K. Yonker **PS, MM**

MISKELLA INFRA-RED CO., THE
E. 73rd & Grand Ave., Cleveland 4, O. (Tel. HEnderson 1-2210)
Purch. Agent: F. Zitek **PS, GS, R&D**

MISSILE DIV., NORTH AMERICAN AVIATION, INC.
12214 Lakewood Blvd., Downey, Calif. (Tel. SPruce 3-0610)
Dir.-Material: Mark Starr
Purch. Agent: N. C. Dopheide
MF, GS, GH, CO, R&D

MISSILE ENGRG. PRODUCTS, INC.
9th & Guava, Eau Gallie, Fla. (Tel. 4622)
V. P.-Purch.: Jack K. Van Hook
Prod. Mgr.: Don Lathrup **PS, GS, GH, GE, TS, TR**

MISSILES & SPACE SYSTEMS, DIV.-UNITED AIRCRAFT CORP.
Main St., E. Hartford, Conn. (Tel. Jackson 8-4811)
Sales Mgr.: Boone T. Guyton
Supvr.-Sales Services: Richard T. Allen

MISSIMERS INC.
3206 Los Feliz Blvd., Los Angeles 39, Calif. (Tel. NOrmandy 5-4261)
V. P.: Dale J. Missimer
Engr.-Buyers: H. C. Faris & S. E. Askew
Parts Buyer: C. Lanphear

MISSOURI RESEARCH LABS., INC.
2109 Locust St., St. Louis 3, Mo. (Tel. CHestnut 1-7875)
Purch. Agent: Weber L. Ley
Exec. V. P.: Albert H. Eicher **GS**

E. C. MITCHELL CO.
Boston St., Middleton, Mass. (Tel. SPring 4-1191)
Everett W. Mitchell

MITCHELL CAMERA CORP.
666 W. Harvard St., Glendale 4, Calif. (Tel. CHapman 5-1086)
Purch. Agent: M. Kruescher
V. P.-Sales: J. D. McCall

MITRONICS INC.
1290 Central Ave., Hillside, N. J. (Tel. WAverly 6-2250)
Purch. Agent: Harvey Pensack
Sales Mgr.: Benjamin Friedman **MM, R&D**

MODEL RECTIFIER CORP.
1675 Utica Ave., Brooklyn 34, N. Y. (Tel. CLoverdale 8-6800)
Purch. Agent: Anthony Iati
Sales Mgr.: Samuel Gelber **GS**

MODELECTRIC PRODUCTS CORP.
1500 Bangs Ave., Asbury Park, N. J. (Tel. PR 4-2519)
Purch.: Chas. S. Nadler **PS, GS, GE**

MOHAWK WIRE & CABLE CORP.
320 River St., Fitchburg, Mass. (Tel. DI 3-3569)
Sales Mgr.: J. W. Resseguie **GS, TR**

JOHN MOHR & SONS
3200 E. 96th St., Chicago 17, Ill.
Purch. Agent: A. D. Armstrong
Sales Mgr.: R. C. Mohr **GS**

MOLDING CORP. OF AMERICA
40 Church St., Pawtucket, R. I. (Tel. PAwtucket 6-2100)
Purch. Agent: Sturgis Green
Sales Mgr.: Stephen Kalarian **GS, GE, TR, R&D**

MONA INDUSTRIES, INC.
P. O. Box 1786, Paterson 17, N. J. (Tel. ARmory 4-8220)
Dir.-Purch.: W. O. Schlimbach
Purch. Agent: Harry H. Schat
V. P.-Sales: R. H. Sommer **MF, GS**

MONADNOCK MILLS, SUB.-UNITED-CARR FASTENER CORP.
1977 1st Ave., San Leandro, Calif. (Tel. ELgin 7-3700)
Purch. Agent: George MacLaughlin
Sales Mgr.: George Gianandrea
MF, WN, PS, GS, GH, TS, TR

J. J. MONAGHAN CO., INC.
500 Alcott St., Denver 4, Colo. (Tel. AC 2-3558)
V. P.: Moses Taylor **MM, R&D**

MONARCH BEARING CO. INC.
4435 Santa Fe Ave., Los Angeles 58, Calif. (Tel. LUdlow 2-8322)
Purch. Agent: Walter Arendell
V. P.-Sales: R. E. Browning **PS, R&D**

MONODE INC.
3751 Prospect Ave., Cleveland 15, Ohio (Tel. ENdicott 1-3872)
V. P.: Ralph Lindsay
Sales Mgr.: Gordon K. Lanese

MONOGRAM PRECISION INDUSTRIES
8557 Higuera St., Culver City, Calif. (Tel. TExas 0-6531)
Purch. Agent: John Cargyle
Sr. Buyer: Eugene Hiatt (Tel. CH 5-8625)
Buyer: William Pike
MF, GS, GH, GE, CO, MM, R&D

MONROVIA AVIATION CORP.
801 Royal Oaks Dr., Monrovia, Calif. (Tel. ELliot 8-3211)
Dir.-Purch.: Luke Gallagher
Sales Mgr.: J. L. Payne **MF, GS**

MONSANTO CHEMICAL CO.
800 N. Lindbergh Blvd., St. Louis 66, Mo. (Tel. WYdown 3-1000) **PS**

MONTGOMERY ENGRG. CO.
11111 French Rd., Detroit 34, Mich. (Tel. WAlnut 5-1170)
Mgr.: Max Wender

MOODY MACHINE PRODUCTS CO., INC.
42-46 Dudley St., Providence 5, R. I. (Tel. GAspee 1-3317)
Sales Mgr.: J. H. Moody **MF, WN, PS, GS, GE**

MOOG VALVE CO. INC.
Proner Airport, East Aurora, N. Y. (Tel. CY 2000)
Purch. Agent: Raymond Howick
Sales Mgr.: Harry White **GE**

MOORE ASSOCIATES, INC.
2600 Spring St., Redwood City, Calif. (Tel. EM 9-0204)
Purch. Agent: Dan Sully
Sales Mgr.: James B. Bullock **GS, CO, TR**

MORAN CO.
115 Main St., El Segundo, Calif. (Tel. OR 8-3444)
Owner: Tom Moran **MF, PS, GE, MM, R&D**

MORAN INSTRUMENT CORP.
170 E. Orange Grove Ave., Pasadena, Calif. (Tel. SY 6-7158)
Prod. Foreman: A. W. Junkunc
Sales Mgr.: R. L. Marshall **GS, CO, TE, TR, R&D**

MORGANITE, INC.
33-02 48th Ave., Long Island City 1, N. Y. (Tel. STillwell 4-3222)
Gen. Sales Mgr.: W. C. Hass
Dir.-Purch.: M. A. DeRosa
MF, WN, PS, GS, GE, TR

MORNINGSTAR-PAISLEY, INC.
630 W. 51st St., New York 19, N. Y. (Tel. JUdson 2-3790)
Purch. Agent: N. Deutschman
V. P.-Sales: E. C. Lenz
Mgr.-Mkt. Dev.: T. L. Bonnitt **MM**

J. I. MORRIS CO.
378 Elm St., Southbridge, Mass. (Tel. POrter 4-4394)
Asst. Mgr.: J. B. Dirlam **MF, WN, PS**

ROBERT E. MORRIS CO., THE
5000 Farmington Ave., P. O. Box 41, West Hartford 7, Conn. (Tel. ADams 3-3663)
Pres.: Robert E. Morris

FRANK W. MORSE CO.
354 Congress St., Box 10, Mass. (Tel. HAncock 6-5398)
Purch. Agent: Prescott B. Morse
Sales Mgr.: Richard W. Morse **MM**

MORSE INSTRUMENT CO., THE
21 Clinton St., Hudson, Ohio (Tel. OLympic 3-5141)
Purch. Agent: Edward C. Kenyon
V. P.-Sales: Otis E. Burgess

F. L. MOSELEY CO.
409 N. Fair Oaks Ave., Pasadena, Calif. (Tel. RYan 1-0208)
Purch. Agent: Robert Taylor
Sales: F. L. Moseley

MOSER JEWEL CO.
544 Fayette St., Perth Amboy, N. J. (Tel. HIllcrest 2-3434)
V. P.-Sales: C. H. Kalquist

MOSINEE PAPER MILLS CO.
Mosinee, Wisc. (Tel. OXbow 3-2111)
Purch. Agent: H. L. Voss
Sales Mgr.: John R. Diggs

MOSLEY ELECTRONICS, INC.
8622 St. Charles Rock Rd., St. Louis 14, Mo. (Tel. HArrison 7-4400)
Dir.-Purch.: Eugene L. Mosley
V. P.-Sales & Adv.: George E. Mobus **TR**

DONALD P. MOSSMAN, INC.
P. O. Box 265, Brewster, N. Y. (Tel. BRewster 9-3725)
Purch. Agent: William Cox
Sales Mgr.: Ben W. Rist **GS, TS**

CODING
Missile Frame **MF**
Warhead & Nose Cone **WN**
Propulsion System **PS**
Ground Support **GS**
Ground Handling **GH**
Guidance Equipment **GE**
Checkout Equipment **CO**
Test Equipment **TS**
Tracking & Telemetering **TR**
Research & Development **R&D**
Materials & Metals **MM**

MOTCH & MERRYWEATHER MACHINERY CO., THE, AVEY DIV.
25 E. Third St., Covington, Ky.

MOTOR APPLIANCE CORP.
5737 W. Park, St. Louis 10, Mo. (Tel. MI 7-1138)
Purch. Agent: Fred O'Day
Dir.-Sales: M. F. Duerkob **GS, GH**

***MOTOR GENERATOR CORP.**
Jackson at Water Sts., Troy, O. (Tel. FE 2-1227)
Dir.-Purch.: B. A. Lutz
Buyers: Robert Miller & L. D. Isenbarger
V. P.-Sales: D. W. Baker **PS, GS, GH, GE, TR**
*(See Page 90 for Advertisement)

MOTORDYNE INC.
2661 S. Myrtle Ave., Monrovia, Calif. (Tel. RYan 1-6132)
Purch. Agent: O. Hartle
Asst. Purch. Agent: Gayle Ross **GS, GE, TR, R&D**

MOTORESEARCH CO.
1600 Junction Ave., Racine, Wisc. (Tel. MElrose 2-5131)
Purch. Agent: L. J. Novak
Mgr. Govt. Sales: J. G. Hiatt **GS, R&D**

MOTOROLA INC., MILITARY ELECTRONICS DIV.
8201 E. McDowell Rd., Phoenix, Ariz. (Tel. WH 5-4311)
Western Military Purch. Mgr.: Paul Stancik
Chicago Military Purch. Mgr.: John O'Donnell, Chicago Military Purchasing Dept., 1450 N. Cicero Ave., Chicago 51, Ill. (Tel. ESterbrook 9-6700) **GS, GE, CO, TS, TR, MM, R&D**

MOTOROLA INC., MILITARY MARKETING DIV.
8201 E. McDowell, Phoenix, Ariz. (Tel. WH 5-4311)
Purch. Agent: Paul Stancik
Asst. Purch. Agent: Paul Leinheiser

MOTOROLA SEMICONDUCTOR PRODUCTS DIV.
5005 E. McDowell Rd., Phoenix, Ariz. (Tel. BRidge 5-4411)
Mgr.-Purch.: R. S. Nelson
Buyer: A. Porstman
Gen. Mgr.-Sales: J. T. Hickey **GE, TS, TR**

MUCKLE MFG. CO.
Box 119, Owatonna, Minn. (Tel. 7249)
Purch. Agent: Robert Doyle
Sales Mgr.: S. A. Muckle

MUCON CORP.
9 St. Francis St., Newark 5, N. J. (Tel. MI 2-1476)
Purch. Agent: B. Berkman
Sales Mgr.: M. A. Prince **GE**

HEINZ MUELLER ENG. CO. INC.
1906 N. Cicero Ave., Chicago 39, Ill. (Tel. NAtional 2-8977)
Purch. Agents: Henry Egert & Mrs. K. Mueller
V. P.-Sales: Milton Hoffman **GE, MM, R&D**

MUELLER BRASS CO.
1925 Lapeer Ave., Port Huron, Mich. (Tel. YUkon 5-5111)
Dir.-Purch.: H. F. Lewis
Asst. Purch. Agents: G. D. Postill & H. McFadden
Buyers: William Wastell, Archie Sams & Kenneth Robbins
Gen. Sales Mgr.: R. L. Gibbs

MUELLER ELECTRIC CO.
1583 E. 31st St., Cleveland 14, O. (Tel. PRospect 1-5225)
Purch. Agent: E. H. deConingh
Sales: Scott Mueller **GS, GE, CO, TS, TR**

MULLENBACH DIV.-ELECTRIC MACHINERY MFG. CO.
2100 E. 27th St., Los Angeles 58, Calif. (Tel. LUdlow 2-5331)
Purch. Agent: James F. Lewis
Gen. Mgr.: Wayne M. Bitting **GS, GH, CO**

MULTI-AMP CORP.
465 Lehigh Ave., Union, N. J. (Tel. MUrdock 8-7112)
Purch. Agent: Jim Bates
Prod. Mgr.: E. R. Redlhammer **GS, CO, TS**

MULTICORE SALES CORP.
80 Shore Rd., Port Washington, N. Y. (Tel. PO 7-7700)
Dir.-Sales: Melvin Zalkin

CHARLES MUNDT & SONS
53 Fairmount Ave., Jersey City 4, N. J. (Tel. DElaware 3-6200)
Purch. Buyer & Gen. Mgr.: Richard D. Powers **MM**

MUNSTON MFG. & SERVICE, INC.
Bech St., Islip, N. Y. (Tel. JUniper 1-3900)
Purch. Agent: Robert Kuhn
Sales Mgr.: Theodore Whildin **GE, TR, R&D**

MURPHY & MILLER, INC.
610 W. Taylor St., Chicago 7, Ill. (Tel. HArrison 7-8900)
Purch. Agent: John Petruska
Sales Mgr.: N. E. Miller **TS**

MUTRON CORP.
125 Perkins Ave., Brockton, Mass. (Tel. JUniper 3-0033)
Purch. Agent: Richard F. Anderson
Sales Mgr.: Hilbert T. Forsberg **GS, GE, TS, TR**

MYCALEX CORP. OF AMERICA
125 Clifton Blvd., Clifton, N. J. (Tel. PRescott 9-8866)
Purch.: H. C. Westervelt
Sales: J. H. DuBois **MF, WN, PS, GH, GE, CO, TS, TR**

NJE CORP.
345 Carnegie Ave., Kenilworth, N. J. (Tel. CHestnut 1-1500)
Purch. Agent: Robert Schrage
Sales Mgr.: A. Lawrence Karp **GS, CO, TS, TR, R&D**

NRC EQUIPMENT CORP.
160 Charlemont St., Newton 61, Mass. (Tel. DEcatur 2-5800)
Purch. Agent: Loring Raymond
Asst. Purch. Agent: Norman Resnich
Sales Mgr.: Harry D. Stone **PS, GS, GH, GE CO, TS, TR**

N. R. K. MFG. & ENGRG. CO.
4601 W. Addison St., Chicago 41, Ill. (Tel. SPring 7-2970)
Dir.-Purch.: Peter Koppenberger
Purch. Agent: M. R. Warren
Sales Engr.: Ed Dervishian **GE, TR**

NYT ELECTRONICS, INC.
2979 N. Ontario St., Burbank, Calif. (Tel. VIctoria 9-2414)
Purch. Agent: G. Graham
V. P.-Sales: R. L. Hyder **GS, GE, TS, TR**

***NADELLA**
66-68 Solothurnstrasse, Biel, Switzerland
*(See Page 33 for Advertisement)

GEORGE L. NANKERVIS CO.
15300 Fullerton, Detroit 27, Mich. (Tel. VErmont 8-5780)
Purch. Agent: R. I. Pieti
V. P.-Sales: H. W. Grikschiet **GS, GH, GE, CO, TS, R&D**

NAPOLEON PRODUCTS CO., THE
410 Filmore St., Napoleon, O. (Tel. 5361)
Pres. & Gen. Mgr.: G. M. Small
Exec. V. P.-Purch.: E. N. Yeager **MF, PS**

NARDA MICROWAVE CORP., THE
118-160 Herricks Rd., Mineola, N. Y. (Tel. PIoneer 6-4650)
Purch. Agent: James Orehosky
V. P.-Sales: William A. Bourke **PS, GH, GE, CO, TS, TR, R&D**

NARDA ULTRASONICS CORP., THE
625 Main St., Westbury, N. Y. (Tel. EDgewood 3-5400)
Purch. Agent: Philip McKay
Head-Sales: Paul W. Steen **GS**

NARMCO MFG. CO.
5159 Baltimore Dr., La Mesa, Calif. (Tel. HOpkins 9-0171)
Dir.-Purch.: R. M. Ewbank
Dir.-Sales & Engrg.: D. H. Black
Mgr.-Sales & Contracts: D. C. Price **MF, WN, TR, MM, R&D**

NARMCO RESINS & COATINGS CO.
600 Victoria St., Costa Mesa, Calif. (Tel. LIberty 8-1144)
Purch. Agent: Mrs. Maxine Hutchins
Asst. Buyer: Marion Edkins
Gen. Sales Mgr.: Wm. D. Rainey **MM, R&D**

NARROW FABRIC CO., THE
P. O. Box 742, Reading, Pa. (Tel. FRanklin 6-2891)
Dir.-Purch.: C. E. Hoffmaster
Gen. Sales Mgr.: F. S. Pierce

NASH ENGRG. CO., THE
Wilson Ave., S. Norwalk, Conn. (Tel. VOlunteer 6-3351) **PS**

NATIONAL AIROIL BURNER CO.
1345 E. Sedgley Ave., Philadelphia 34, Pa. (Tel. PIoneer 3-5300)
Purch. Agent: Edward P. Bailey, Jr. **GS, TS**

NATIONAL BERYLLIA CORP.
4501 Dell Ave., North Bergen, N. J. (Tel.: N.Y.C.—OXford 5-1860; N. J. — UNion 5-1600)
Purch. Dept.: First & Haskell Aves., Haskell, N. J. (Tel. TEmple 9-1600)
Purch. Agent: George B. Carlisle
Mgr., Sales Div.: Don de Gruchy **MF, WN, PS, MM, R&D**

NATIONAL CASH REGISTER CO., THE, ELECTRONICS DIV.
1401 E. El Segundo Blvd., Hawthorne, Calif. (Tel. PLymouth 7-1811)
Purch. Agent: A. G. Krumm
Buyer: A. Lloyd
Jr. Buyer: A. Wood **R&D**

NATIONAL CERAMIC CO.
500 Southard St., Trenton 2, N. J. (Tel. EXport 4-5373)
Prod. Mgr.: J. G. Wallis **GE, CO, TR**

NATIONAL COIL CO.
P. O. Box 1237, Sheridan, Wyo. (Tel. OR 4-7644)
Purch. Agent: Harold Demple
Sales Mgr.: Joe Demple **GE, TS, TR, R&D**

NATIONAL ELECTRONICS
P. O. Box 1237, Sheridan, Wyo. (Tel. OR 4-7644)
Gen. Mgr. & Purch. Agent: Harold Demple
Sales Mgr.: John Bullinga **GS, GH, GE, CO, TS, TR, R&D**

NATIONAL ENGRG. PRODUCTS, INC.
435 Washington Bldg., Washington 5, D. C. (Tel. REpublic 7-4473)
V. P.-Purch.: Clinton Rector **MF, WN, GS**

NATIONAL FELT CO.
76 Summer St., Boston 10, Mass. (Tel. LIberty 2-6590) **MM**

NATIONAL FOAM SYSTEM, INC.
Union & Adams Sts., West Chester, Pa. (Tel. OW 6-3600)
Purch. Agent: A. D. Holmes
V. P.: L. W. Boerner **GH, TS**

NATIONAL FORGE CO.
Irvine, Warren Co., Pa. (Tel. Youngsville — LOgan 3-7522)
Purch. Agent: Willis Cooney
Asst. Purch. Agent: Paul Broderick
Dir.-Sales: James H. Kannen **MM**

NATIONAL INSTRUMENT LABORATORIES, INC.
834 Evarts St., N. E., Washington, D. C. (Tel. NOrth 7-7582)
Purch. Agent: A. Bloom
Sales & Adv. Mgr.: D. I. Steele

NATIONAL LEAD CO.
111 Broadway, New York 6, N. Y. (Tel. REctor 2-9400)
V. P.-Sales: William J. Welch **R&D**

NATIONAL LOCK CO.
1902 Seventh St., Rockford, Ill. (Tel. WO 2-4455) **MF, WN, PS, GS**

NATIONAL METALLURGICAL CORP.
P. O. Box 656, Springfield, Ore. (Tel. RIverside 6-3233)
V. P. & Works Mgr.: W. E. Platte
Secy.-Treas.: A. H. Nelson **MM**

NATIONAL MOLDITE CO.
250 South St., Newark, N. J. (Tel. MItchell 2-6860)
Partners: Manuel Miller & Sidney Lowenberg **MM, R&D**

NATIONAL PNEUMATIC CO., INC., HOLTZER-CABOT DIVS.
125 Amory St., Boston, Mass. (Tel. JAmaica 4-7000)
Dir.-Purch.: Sidney Coven
Purch. Agent: Thomas Furlong
Gen. Sales Mgr.: J. J. Anderson **PS, GE, TS, TR**

NATIONAL RESEARCH CORP.
70 Memorial Dr., Cambridge, Mass. (Tel. ELiot 4-5400)
Dir.-Purch.: James R. Caudill
Buyers: R. T. Davis, G. E. Ryan & B. M. Sandock
Contracts Mgr.: J. V. E. Hansen **PS, GS, MM, R&D**

NATIONAL RESEARCH & DEVELOPMENT CORP.
15 Sixteenth St., N. E., Atlanta, Ga. (Tel. TRinity 3-2536)
Pres.: Carsbie C. Adams **R&D**

NATIONAL SCREW & MFG. CO., THE
2440 E. 75th St., Cleveland 4, Ohio. (Tel. ENdicott 1-2650); 3423 S. Garfield Ave., Los Angeles 22, Calif.
Purch. Agent: J. O'Neil
Asst. Purch. Agent: Paul Frederick
Gen. Sales Mgr.: R. E. Black **MF, WN, GS, GH, GE**

NATIONAL SPECIALTIES CO., INC.
1902 Howell St., Ft. Wayne 7, Ind. (Tel. ANthony 2341)
Asst. Gen. Mgr.: Edward C. Doell **GS**

NATIONAL SPECTROGRAPHIC LABS., INC.
6300 Euclid Ave., Cleveland 3, Ohio (Tel. UTah 1-4664)

Purch. Agent: Mrs. Lydia Milite
V. P.-Sales: Donald R. Moore, Miami, Fla. (Tel. TUxedo 5-1691) TS, MM, R&D

NATIONAL TEL-TRONICS CORP.
52 St. Casimir Ave., Yonkers, N. Y. (Tel. YOnkers 8-6400)
Purch. Agent: William Jaris
Sales Mgr.: Charles J. Siebert GE, TR

NATIONAL TUBE DIV.-UNITED STATES STEEL CORP.
525 William Penn Pl., Pittsburgh 30, Pa. (Tel. EXpress 1-2345) GS, MM

NATIONAL ULTRASONIC CORP.
111 Montgomery Ave., Irvington 11, N. J. (Tel. ESsex 1-0550)
V. P.-Purch.: Gilbert Tint
Pres. & Gen. Mgr.: L. R. Jeffrey, Jr. MM, R&D

NATIONAL UNION ELECTRIC CORP.
1201 E. Bell St., Bloomington, Ill. (Tel. 7-6041)
Chief-Purch.: C. Hoover
Sales Mgr.: H. B. Graham GE, TS, TR

NATIONAL UTILITIES CORP.
826 S. Arroyo Parkway, Pasadena 2, Calif. (Tel. SYcamore 3-6663)
Purch. Agent: R. Kleeman
Sales Mgr.: Miles Abbott MF, PS, GS, GH, TS

NATIONAL VULCANIZED FIBRE CO.
Maryland Ave. & Beech Sts., Wilmington, Del. (Tel. OL 5-6371)
Dir.-Purch.: L. R. Clinton
Buyer: R. L. Jackson
Sales Mgr.: J. L. Kallaher MF, WN, PS, GE, TR, MM

NATIONAL WATER LIFT CO., DIV.-CLEVELAND PNEUMATIC INDUSTRIES, INC.
2220 Palmer Ave., Kalamazoo, Mich. (Tel. FIreside 5-8641)
Purch. Agent: Edwin W. Rector
Buyers: Harry Pindell, Richard Haaye, Joseph Krause, Fred Weissert & Jerry Hicks
Chief, Contracts Admin.: M. E. Schnurr MF, R&D

NATIONAL WELDING EQUIPMENT CO.
218 Fremont St., San Francisco 5, Calif. (Tel. YUkon 6-2868)
Pres. & Gen. Mgr.: E. L. Mathy

NATIONAL-STANDARD CO.
Howard & 8th Sts., Niles, Mich. (Tel. MUtual 3-8100)
V. P.-Purch.: J. A. Mogle
V. P.-Sales: R. W. Elder MF, PS, GS, TR, MM

NATVAR CORP.
211 Randolph Ave., Woodbridge, N. J. (Tel. FUlton 8-8800)

NAVIGATION COMPUTER CORP.
1621 Snyder Ave., Philadelphia 45, Pa. (Tel. HOward 5-7700)
Purch. Agent: J. Concordia
Sales Mgr.: D. M. Biberman GE, CO, TS, TR

E. V. NAYBOR LABS., INC.
26 Manorhaven Blvd., Port Washington, N. Y. (Tel. Port Washington 7-4300)
Pres.: E. V. Naybor GS, GE, TR

NAZ-DAR CO.
461 Milwaukee Ave., Chicago 10, Ill. (Tel. CHesapeake 3-1630)
Purch.: Seymour Reiger
Sales: R. E. Doran MF, PS, GS, GE, TS, TR

NEBEL MACHINE TOOL CORP.
3401 Central Pkwy., Cincinnati 25, Ohio (Tel. LIberty 2-3500)
Purch. Agent: Jack D. Smith
V. P.-Sales: Warren G. Rosendahl MF, WN, GS, GH

NEFF INSTRUMENT CORP.
2211 E. Foothill Blvd., Pasadena, Calif. (Tel. RYan 1-5121)
Purch. Agent & Prod. Mgr.: William P. Shaw
Sales Mgr.: Donald B. Schneider GS, TS, TR

NELSON LABS., INC.
4718 Mason Ave., Hyattsville, Md. (Tel. WArfield 7-1116)
Purch. Agent: Charles E. Barker
Dir.-Sales: Ralph S. Baer GH

NELSON STUD WELDING, DIV.-GREGORY INDUSTRIES, INC.
Toledo Ave. at E. 28th St., Lorain, Ohio (Tel. CHerry 5-6931)
Dir.-Purch.: Howard P. Nalley
Dir.-Sales: R. E. McGinnis MM

NELSON VACUUM PUMP CO.
2133 4th St., Berkeley 10, Calif. (Tel. AShberry 3-2277)
Mgr.-Purch.: D. B. Webb
Sales Mgr.: B. J. McClary GH, TS

NEMS CLARKE CO., DIV.-VITRO CORP. OF AMERICA
919 Jesup-Blair Dr., Silver Spring, Md. (Tel. JUniper 5-1000)
Purch. Agent: O. E. Lanham
Dir.-Sales: J. F. Whitehead TR

NESOR ALLOY PRODUCTS CO.
282-4 Halsey St., Newark 2, N. J. (Tel. Mitchell 2-1682)
Purch.: Herbert Jacobsen & Marvin Feldman
Dir.-Sales: Marvin Feldman MM, R&D

NETWORKS ELECTRONIC CORP.
14806 Oxnard St., Van Nuys, Calif. (Tel. St 2-3114)
Purch. Agent: Mrs. Caroline Porter
Buyer: Miss Sarah McCall TS, TR, R&D

NEUMADE PRODUCTS CORP.
250 W. 57th St., New York 19, N. Y. (Tel. JUdson 6-5810)
Exec. V. P.-Purch.: L. E. Jones

NEUTRONIC ASSOCIATES
93-14 101st Ave., Ozone Park 17, N. Y. (Tel. VI 7-7703)
Chif Engr.: Jose Hernandez GE, R&D

NEW BRITAIN MACHINE CO., THE, PRECISION PRODUCTS DIV.
South St., New Britain, Conn. (Tel. BAldwin 9-1641)
Dir.-Purch.: R. Hulbert
Purch. Agent: J. Devokaitis
Buyer: L. Bourquin
Asst. Purch. Agent: E. Johnson
Sales Mgr.: W. R. Knowles

NEW DEPARTURE DIV., GENERAL MOTORS CORP.
269 N. Main St., Bristol, Conn. (Tel. LUdlow 2-6371)
Dir.-Purch.: William J. Ryan
Gen. Sales Mgr.: Leonard F. Swoyer MF, GE, TR, R&D

NEW ENGLAND ELECTRICAL WORKS, INC.
365 Main St., Lisbon, N. H. (Tel. 8-6620)
Exec. Asst.-Purch.: W. W. Jesseman
Treas.: L. H. Dumdey GE, TR

NEW ENGLAND ETCHING & PLATING CO., INC.
Spring St., Holyoke, Mass. (Tel. JE 2-9482)
V. P.-Sales: Walter W. Morris MM

NEW ENGLAND INSTRUMENT CO.
320 Main St., Woonsocket, R. I. (Tel. POplar 2-6232)
V. P.-Purch.: Donald McGee
Pres.: Paul Hines

NEW ENGLAND LAMINATES CO., INC.
481 Canal St., Stamford, Conn. (Tel. DAvis 4-4181)
Tech. Dir.-Purch.: Dr. D. E. Edgar
Sales Mgr.: Bruce B. Greenfield GE, MM, R&D

NEW ENGLAND SCIENTIFIC INSTRUMENTS CO.
238 Main St., Cambridge 42, Mass. (Tel. KI 7-1997)
Gen. Mgr.: Dr. Geoffrey Knight, Jr. PS, GE, CO, TS, TR

NEW ENGLAND TAPE CO., DIV.-UNITED-CARR FASTENER CORP.
30 Tower St., Hudson, Mass. (Tel. HUdson 965)
Purch. Agent: F. A. Keay
Sales: H. M. Wilkoff MM

NEW ENGLAND TRANSFORMER CO., INC.
47 McGrath Hwy., Somerville 43, Mass. (Tel. SOmerset 6-6100)
Pres. & Gen. Mgr.: H. F. S. Morris

NEW HAMPSHIRE BALL BEARINGS, INC.
Peterborough, N. H. (Tel. WAlnut 4-3311)
Purch. Agent: W. R. Reekie
Buyer: Marvin Hammer
Sales Mgr.: George Hampson GS, GE, TR

NEW PROCESS METALS, INC.
45-65 Manufacturers Place, Newark 5, N. J. (Tel. MArket 4-1380)
V. P.-Gen. Mgr.: I. S. Hirschhorn
Sales Mgr.: B. M. Berzon MM

NEW YORK AIR BRAKE CO., THE, WATERTOWN DIV.
Starbuck Ave., Watertown, N. Y. (Tel. WAtertown 7700)
Dir.-Purch.: R. R. Petersen
Purch. Asst.: H. A. Hardman
Buyers: P. F. Hoag & R. H. Madden
Gen. Sales Mgr.: H. R. Doughty, Jr. MF, PS, GS, GE

NEW YORK COIL CO., INC.
48 Second Ave., Phoenixville, Pa. (Tel. WEllington 3-3114)
Purch. Agent: Miss Doris I. Darlington
Pres. & Sales Mgr.: J. R. Zikmund GE, CO, TS, TR

NEW YORK & NEW JERSEY LUBRICANT CO.
292 Madison Ave., New York, N. Y. (Tel. LExington 2-2851)
Purch. Agent: F. Roettinger PS

NEW YORK RUBBER CORP.
100 Park Ave., New York 17, N. Y. (Tel. OR 9-1300)
Purch. Agent: H. J. Baxter
V. P.-Sales: C. B. Allen R&D

NEW YORK SOLDER CO., INC.
684 E. 133rd St., New York 54, N. Y. (Tel. CYpress 2-3740)
Purch.: B. Gottlieb MF, PS, TR

NEW YORK TESTING LABS., INC.
47 West St., New York, N. Y. (Tel. BO 9-6220)
Purch. Agent: J. Cassidy
Tech. Dir.: G. J. Harvey TS

NEW YORK TRANSFORMER CO. INC.
3rd Ave., Alpha, N. J. (Tel. GLencourt 4-1143)
Purch. Agent: A. Micci GS, GE, TS, TR

NEW YORK TWIST DRILL CO., INC.
276 Lafayette St., New York 12, N. Y. (Tel. WOrth 6-0551)
Purch. Agent: Ernest Lazarus
Exec. V. P.-Sales: Raymond M. Greenfield MM

NEWARK CONTROLS CO.
15 Ward St., Bloomfield, N. J. (Tel. PIlgrim 8-2971)
Purch. Agent: D. Hess
Pres.: B. A. Hicks

NEWARK WIRE CLOTH CO.
351 Verona Ave., Newark, N. J. (Tel. HUmboldt 3-7700)
Purch. Agent: E. J. Korn
V. P.-Sales: J. L. Campbell MF, PS, GS, GH, GE, TR

***NEWAY EQUIPMENT CO.**
P. O. Box 425, 1183 E. Laketon Ave., Muskegon, Mich. (Tel. 6-2134)
Purch. Agent: Fred Tuttle
V. P.-Sales: George Bartlett GS, GH
*(See Page 56 for Advertisement)

NEWBROOK MACHINE CORP.
16 Mechanic St., Silver Creek, N. Y. (Tel. 44)
Purch. Agent: J. P. Shaw
Dir.-Sales: Gordon Kurtis MF, WN, PS, GS, GH, R&D

M. M. NEWMAN CORP.
79 Clifton Ave., Marblehead, Mass. (Tel. NEptune 2-0637)
Pres.: M. M. Newman MM

NEWTH RUBBER CO.
County Rd., Barrington, R. I. (Tel. CHerry 5-8050)
Purch. Agent: Charles F. Gladding
Sales Mgr.: Richard T. Shortle MM

NEWTON CO., THE
55 Elm St., Manchester, Conn. (Tel. MI 3-1543)
Purch. Agent: Ernest Ehlers
V. P.-Sales: Norman Neslon GS, GE

NEWTON HYDRAULIC TOOLING CO.
P. O. Box 278, Auburn, Mass. (Tel. PLeasant 6-4695)
Purch. Agent: A. Pratt
Dir.-Sales: Gerald P. Welman

J. M. NEY CO., THE
Box 990, Hartford 1, Conn. (Tel. CHapel 2-2281)
Purch. Agent: Ralph Fothergill
Buyer: Sharline Singleton
Head-Sales: Fred I. Kent
Mgr., Industrial Sales Office: John Boyle MM

NICAD DIV., GOULD-NATIONAL BATTERIES, INC.
172 Pleasant St., Easthampton, Mass. (Tel. EAsthampton 1200)
Purch. Agent: A. R. Duby
Gen. Sales Mgr.: L. R. Mannheim GS, GE, R&D

NICE BALL BEARING CO.
30th & Hunting Park Ave., Philadelphia 40, Pa. (Tel. BAldwin 3-6000)
Purch. Agent: F. P. H. Dimond
V. P.-Sales: Theo E. Spilker

W. H. NICHOLS CO.
48 Woerd Ave., Waltham 54, Mass. (Tel. TWinbrook 4-0650)
Dir.-Purch.: W. E. Neese

CODING

Missile Frame	MF
Warhead & Nose Cone	WN
Propulsion System	PS
Ground Support	GS
Ground Handling	GH
Guidance Equipment	GE
Checkout Equipment	CO
Test Equipment	TS
Tracking & Telemetering	TR
Research & Development	R&D
Materials & Metals	MM

Asst. Dir.-Purch.: R. H. Stearns
Sales Mgr.: John Freeto · PS, GS, GH

NIPPERT ELECTRIC PRODUCTS CO., THE
1759 W. Mound St., Columbus 23, Ohio (Tel. BRoadway 4-1116)
V. P.-Purch: J. E. Nippert MM

NOBLE & WESTBROOK MFG., CO., THE
Westbrook St., East Hartford 8, Conn. (Tel. BU 9-2717)
Secy.: R. H. Gunther

NON-LINEAR SYSTEMS, INC.
Del Mar, Calif. (Tel. SKyline 5-1134)
Purch. Agent: W. Clemens
Dir.-Sales: R. C. Wynne CO, TS

NOOTER CORP.
1400 S. 2nd St., St. Louis 4, Mo. (Tel. MAin 1-6000)
Dir.-Purch.: H. H. Lurtz
V. P.-Sales: Arthur Schwarz PS, GS

NOPCO CHEMICAL CO.
60 Park Place, Newark, N. J. (Tel. HUmboldt 3-6200)
V. P.: G. G. Stier
Purch. Agent: Foster Jones MF, WN, PS, GS, MM

***NORD AVIATION**
12 bis, av. Bosquet, Paris (7e)
Factory: 12/18 rue Beranger—CHATILLON—sous-BAGNEUX (Seine)
Pres.: P. Mazer
*(See Page 71 for Advertisement)

NORDBERG MFG. CO.
3073 S. Chase Ave., Milwaukee, Wisc. (Tel. SHeridan 4-2345)
Gen. Purch. Agent: F. T. Finley
Mgr.-Sales: C. O. Friend GS, MM

NORDEN KETAY CORP.
99 Park Ave., New York, N. Y.

NORMANDY ELECTRIC WIRE CORP.
125 Second St., Brooklyn 31, N. Y. (Tel. TRiangle 5-9863)
Mktg. Expediter: Lester W. Goody
Purch. Dept.: Milton Imbey MF, GS, GH, CO, TS, TR

NORRICH PLASTICS CORP.
107-109 W. 18th St., New York 11, N. Y. (Tel. WA 4-8360)
Purch.: Norman L. Thaw
Tech. Sales Mgr.: Richard E. Thaw

NORRIS-THERMADOR CORP.
5215 S. Boyle Ave., Los Angeles 58, Calif. (Tel. LUdlow 8-7111)
Dir.-Purch.: R. R. Stoddard
V. P.-Sales, Military Products: D. P. White MF, WN, R&D

ERNST NORRMAN LABORATORIES
Lake Geneva, Wisc. (Tel. CIrcle 5-5516)
Ernst Norrman GE, TS, TR, R&D

NORSID MFG. CO., INC., THE
33 Prospect St., Yonkers, N. Y. (Tel. YOnkers 5-8145)
Purch.: Jack Deutsch
Sales: Harold Deutsch MF

NORTH AMERICAN AVIATION, INC.
(See Autonetics Div., Missile Development Div., Rocketdyne Div.)

NORTH AMERICAN ELECTRONICS INC.
212 Broad St., Lynn, Mass. (Tel. LYnn 8-2835)
Purch. Agent: Mario S. Bruno
Sales Mgr.: Raymond W. Smith

NORTH ATLANTIC INDUSTRIES, INC.
603 Main St., Westbury, N. Y. (Tel. EDgewood 4-1122)
Purch. Agent: Walter Lipkin
Sales Mgr.: John A. Gregorio GS, CO, TS

NORTH ELECTRIC CO.
553 S. Market St., Galion, O. (Tel. HOward 8-2420)
Dir.-Mfg.: Joseph Dolland
Purch. Agent: Cal Snyder
Chief Field Engr.-Sales: Howard Brewer GS

NORTH HILLS ELECTRIC CO., INC.
402 Sagamore Ave., Mineola, N. Y. (Tel. PIoneer 7-0555)
Pres.: S. Cramer
Buyer: S. Nuchtern TS, TR, R&D

NORTH SHORE NAMEPLATE INC.
214-27 Northern Blvd., Bayside, N. Y. (Tel. BAyside 4-4000)
Pres.: E. T. Turney, Jr.
Head-Sales: Margaret S. Turney MM

NORTHEAST ELECTRONICS CORP.
P. O. Box 425, Airport Rd., Concord, N. H. (Tel. CApitol 5-6641)
Purch.: R. L. Lincoln
Sales: J. J. Dwyer TS, TR, R&D

NORTHEAST SCIENTIFIC CORP.
617 Concord Ave., Cambridge 38, Mass. (Tel. UNiversity 4-2350)
Pres.: Clement Moritz

NORTHEASTERN ENGRG. INC.
25 S. Bedford St., Manchester, N. H. (Tel. NAtional 2-6485)
Buyer: R. Harris
Head-Sales: C. N. Chagaris CO, TS

NORTHERN ENGRG. LABORATORIES, INC.
372 Wilmot Ave., Burlington, Wisc. (Tel. ROckwell 3-7155)
Pres. & Sales Mgr.: John D. Holmbeck GE, TR, R&D

NORTHERN ORDNANCE INC., SUB.-NORTHERN PUMP CO.
Columbia Heights, Minneapolis 21, Minn. (Tel. SUnset 8-8601)
Purch. Mgr.: W. H. Bauer
Purchasing: Vern Kinney & Tony Petrangelo
Sales Mgr.: A. J. Bryant

NORTHERN PLASTICS CORP.
2nd & Market St., La Crosse, Wisc. (Tel. 4-6070)
Purch. Agent: S. L. Noe
Head-Sales: G. C. Kroening MM

NORTHROP CORP.
9744 Wilshire Blvd., Beverly Hills, Calif. (Tel. CRestview 4-8061)
Mgr.-Purch.: J. W. Hinchliffe MF, GS, GH, GE, CO, TS, TR, MM, R&D

NORTHROP CORP., NORTRONICS DIV.
Electronic Systems & Equipment Dept., 222 N. Prairie Ave., Hawthorne, Calif. (Tel. ORegon 8-9111)
Dir.-Materiel: R. M. Cooper
Chief Applications Engr.: T. J. Venator
Purchasing Dept.: 2031 E. Mariposa, El Segundo, Calif. (Tel. ORegon 8-0411)
Systems Support Dept.: 500 E. Orangethorpe, Anaheim, Calif. (Tel. LAmbert 5-4771)
Dir.-Materiel: C. W. Hood
Chief Applications Engr.: E. W. Warnshuis MF, WN, GS, GH, GE, CO, TS, TR, R&D

NORTHWESTERN ELECTRIC CO.
1750 N. Springfield Ave., Chicago 47, Ill. (Tel. DIckens 2-4400)
Purch. Agent: Paul Christiansen
Gen. Sales Mgr.: George D. Craig, Jr. GS, GH

NORTON ASSOCIATES, INC.
P. O. Box 96, Garden City, N. Y. (Tel. IV 3-2968)
V. P.-Sales: R. S. Norton GE, TR

NORTON CO.
New Bond St., Worcester 6, Mass. (Tel. SWift 8-2511)
Gen. Purch. Agent: G. D. Seguin
Chief Buyer: H. H. Anderson MM, R&D

NORTON CO., NEW PRODUCTS DEPT.
Worcester 6, Mass. (Tel. SW 8-2511) WN, PS, GS, TS, MM, R&D

NORWALK CUTTER SHARPENING CO.
356 Ely Ave., South Norwalk, Conn. (Tel. VO 6-0560)
Dir.-Sales: Harold W. Nadin

NORWOOD CONTROLS UNIT, DETROIT CONTROLS DIV.
934 Washington St., Norwood, Mass. (Tel. NOrwood 7-4010)
Purch. Agent: N. T. Ross
Dir.-Sales: J. M. Devine GS, GH, TS

NU STEEL CO.
1714 S. Ashland Ave., Chicago 8, Ill. (Tel. HAymarket 1-5760)
Pres.: Lew W. Cleminson MM

NUCLEAR CORP. OF AMERICA, INC.
2 Richmond Pl., Denville, N. J. (Tel. OAkwood 7-4200)
Purch. Agent: Michael Buff
Sales Mgr.: David Silverstein TS, R&D

NUCLEAR MEASUREMENTS CORP.
2464 N. Arlington Ave., Indianapolis 18, Ind. (Tel. LIberty 6-2415)
Purch. Agent: James L. Sommerville
Chief Engr.: Herbert S. Fall
Gen. Sales Mgr.: Cort L. Kegley

NUCLEAR PRODUCTS-ERCO DIV.-ACF INDUSTRIES, INC.
Riverdale, Md. (Tel. WArfield 7-4444)
Purch. Agent: R. C. Nill
Sr. Buyers: E. T. Wagner & H. L. Blaylock
Mktg. Mgr., Defense Products: Conan J. Doyle GS, GH, CO, TS, R&D

NUCLEAR-CHICAGO CORP.
223 W. Erie, Chicago, Ill. (Tel. DE 7-3060)
Purch. Agent: Robert Young
Sales Mgr.: Mel Shepherd MM

NUGENT ELECTRONICS CO., INC.
802 E. Eighth St., New Albany, Ind. (Tel. WHitehall 5-0211)
V. P.-Purch.: J. D. Robinson

PAUL NURCHES CO.
3250 Rida St., Pasadena, Calif. (Tel. SYcamore 6-5844)
Mgr.-Purch. & Sales: Paul Nurches GS, CO, TS, R&D

NUTRON MFG. CO. INC.
67 Monroe Ave., Staten Island 1, N. Y. (Tel. GIbraltar 7-3229)
Secy.-Treas.: Henry Scian GS, CO, TS

NUTT-SHEL CO.
2701 S. Harbor Blvd., Santa Ana, Calif. (Tel. KImberly 5-9311)
Purch. Agent: P. Welsh
Chief Sales Engr.: R. C. Poucher MF, PS

OPW-JORDAN
6013 Wiehe Rd., Cincinnati 13, Ohio (Tel. EL 1-1352)
Asst. Plant Mgr.: M. H. Hott
Chief Sales Engr.: P. H. Coleman
Sales Engr.: R. J. Peters
Gen. Mgr.: G. B. Richards, Jr. GS, GH

O & S RESEARCH, INC.
1811 Bannard St., East Riverton, N. J. (Tel. TAImadge 9-2800)
Purch. Agent: Edward R. Sanders
Sales Mgr.: Donald G. Wright WN, TS, TR

OAKITE PRODUCTS, INC.
19 Rector St., New York 6, N. Y. (Tel. WHitehall 3-0940)
Purch. Agent: R. R. Burns
Sales Mgr.: William A. Baltzell MF, WN, PS, GS, GH

OERLIKON TOOL & ARMS CORP. OF AMERICA
P. O. Box 3049, Asheville, N. C. (Tel. ALpine 3-6464)
Chief-Procurement: William L. Hayes
Research Engr.: R. L. Hoch WN, PS, R&D

OFFNER ELECTRONICS INC.
3900 River Rd., Schiller Park, Ill. (Tel. GLadstone 1-0050)
Purch. Agent: H. Lewis
Sales Mgr.: G. W. Little TS, TR

OHIO CARBON CO., THE
12508 Berea Rd., Cleveland 11, O. (Tel. CL 2-6100)
Purch. Agent: R. Hawrylak
V. P.-Sales: F. C. Aurand MM

OHIO PRECISION CASTINGS, INC.
109 Webb St., Dayton 3, O. (Tel. CLearwater 3-4183)
Pres.-Treas.: W. J. Prestel
Dir.-Purch.: Mrs. Jeanette Diener MM

OHIO SEAMLESS TUBE DIV.-COPPERWELD STEEL CO.
Shelby, O. (Tel. 3-1010)
Purch. Agent: R. R. Underhill
Asst. Purch. Agent: R. W. Winck
Mgr.-Sales: J. E. Horner MM

OHIO SEMICONDUCTORS, INC.
1035 W. Third Ave., Columbus 8, Ohio (Tel. AXminster 4-4938)
Pres.: Dr. W. E. Bulman
Treas.: L. A. Denton
Dir.-Marketing: H. C. Dale
Sales & Applications Mgr.: A. Jerencsik MM, R&D

OHMART CORP., THE
2236 Bogen St., Cincinnati, Ohio

OIL-DYNE, INC.
2115 W. Marquette Rd., Chicago 36, Ill. (Tel. HEmlock 4-2300)
Purch. Agent: Andrew Pappas
Dir.-Sales: John Warren GE

OIL-RITE CORP.
2318 Waldo Blvd., Manitowoc, Wisc. (Tel. MUrray 2-2428)
Purch. Agent: Gus Lukas
Sales Mgr.: Merwin R. Scheider GS

OKONITE CO., THE, SUB.-KENNECOTT COPPER CORP.
220 Passaic St., Passaic, N. J. (Tel. PRescott 7-0400)
Purch. Agent: F. B. Woodcock
V. P.-Mktg.: C. M. Kirkland MF, GS, GH, CO, TS, TR

OLIN MATHIESON CHEMICAL CORP., ENERGY DIV.
460 Park Ave., New York, N. Y. (Tel. MU 8-0500)
Branch Offices:
Niagara Falls, N. Y. (Tel. BUtler 4-7811)
Purch. Agent: J. C. Pfisterer
Product Mgr.: J. H. Heck
New Haven, Conn. (Tel. SPruce 7-7911)
Purch. Agent: F. E. Plumley
Product Mgr.: J. Jacox
East Alton, Ill. (Tel. WOodriver 4-7311)
Purch. Agent: W. A. Oakey
Product Mgr.: W. P. Turner
Washington, D. C. (Tel. DIstrict 7-2911)
V. P.-Sales: Harry A. Sosnoski **PS, R&D**

OLIVER CORP., THE
400 W. Madison St., Chicago 6, Ill. (Tel. FRanklin 2-6969)
V. P., Dir.-Purchases: L. P. Richie
Dir.-Defense Operations: J. Hoyne
V. P.-Sales: D. W. Koegle **GS**

OLIVER CORP., THE, A. B. FARQUHAR DIV.
142 N. Duke St., York, Penna. (Tel. 7801)
Spec. Machinery & Ord. Sales Mgr.: J. Kugle
Mech. & Hydraulic Press Sales Mgr.: P. Dunlap
Conveyor Sales Mgr.: C. W. King
Mgr.-Purch: Lester B. Hibner

OLYMPIC RADIO & TELEVISION, INC.
34-01 38th Ave., Long Island City, N. Y.

OMEGA ELECTRONIC CORP.
Haverhill St., Rowley, Mass. (Tel. WHitney 8-3401)
Treas.: H. B. Ribbel
Sales: P. S. Huston

OMEGA LABS., INC.
Haverhill St., Rowley, Mass. (Tel. WHitney 8-7757)
Treas: H. B. Ribbel **GE, CO, TS, TR**

ON MARK COUPLINGS, INC.
4440 York Blvd., Los Angeles 41, Calif. (Tel. CLinton 4-2278)
Purch. Agent: Kenneth Palmer
Pres.: Barry B. Willis
Chief Engr.: H. A. DeCenzo
Sales Mgr.: Howard Sherman
PS, GS, GH, CO, TS, R&D

D. W. ONAN & SONS INC.
2515 University Ave., S. E., Minneapolis 14, Minn. (Tel. FE 2-1155)
Dir.-Procurement: H. P. Richter
Mgr.-Purch. Dept.: L. V. Moen
Gen. Sales Mgr.: R. E. Mullin **GS**

O'NEIL-IRWIN MFG. CO.
751 Eighth Ave., Lake City, Minn. (Tel. 6301)
Purch. Agent: L. C. Wickstrom
Sales Mgr.: R. B. Maland

ONSRUD CUTTER MFG. CO., INC.
800 E. Broadway, Libertyville, Ill. (Tel. 2-1560)
Purch. Agent: Norbert Vess
Sales Mgr.: Arthur R. Johnson **MM**

ONSRUD MACHINE WORKS, INC.
7720 N. Lehigh Ave., Niles 48, Ill. (Tel. Niles 7-8700)
Purch. Agent: Frank Muscarello
V. P.-Machine Tool Sales: Albert L. Breuer
MF, WN, PS, GS

OPAD ELECTRIC CO.
43 Walker St., New York 13, N. Y. (Tel. WOrth 6-0380)
Purch. Agent: J. McShay
Dir.-Sales: H. L. Opad **GS, TS**

OPELIKA WELDING, MACHINE & SUPPLY INC.
1200 Steel St., Opelika, Ala. (Tel. SHerwood 5-3524)
Purch. Agent: J. P. Byrd
Engr.-Purch.: Wm. S. Harris
V. P.-Sales: C. Foster **MF, GS, GH, TS**

OPTICAL COATING LAB., INC.
977 Sebastopol Rd., Santa Rosa, Calif. (Tel. LIberty 5-6440)
Administrative Mgr.: John McCullough
Customer Liaison Mgr.: L. Vance Fisher
Gen. Mgr.: Rolf F. Illsley
Prod. Mgr.: G. Eugene Michel **GE, TR, R&D**

OPTIMIZED DEVICES, INC.
864 Franklin Ave., Thornwood, N. Y. (Tel. ROgers 9-6110)
Prod. Mgr.: J. Murtha
Sales Mgr.: A. Zuch **GH, GE, CO, TS, R&D**

OPTOMECHANISMS INC.
216 E. 2nd St., Mineola, N. Y. (Tel. PIoneer 6-5576)
Purch. Agent: John Ferrante
Sales Engrg. Mgr.: Ray T. Smith **R&D**

OPTO-METRIC TOOLS, INC.
137 Varick St., New York 13, N. Y. (Tel. ORegon 5-9076)
Sales Mgr.: A. A. Crystle
Gen. Mgr.: F. Koenig **GS, GE, CO, TS, TR**

ORANGE PRODUCTS, INC.
554 Mitchell St., Orange, N. J. (Tel. ORange 7-0900)
Pres.: L. W. Schaper
V. P. & Treas.: C. J. Gentile **MM**

ORANGE ROLLER BEARING CO., INC.
557 Main St., Orange, N. J. (Tel. ORange 3-6161)
Dir.-Purch.: James McGraw
Dir.-Sales: T. E. Cushing **PS**

ORBIT INSTRUMENT CORP.
656 Main St., Westbury, N. Y. (Tel. ED 4-8380)
Purch. Agent: R. Schneider
Sales Mgr.: H. Silberman **GS, GE, CO, TS, TR, R&D**

ORBITRAN CO., INC.
11487 Woodside Ave., Lakeside, Calif. (Tel. HIckory 3-6832)
Gen. Mgr.: E. W. Fischer **GE, TR**

ORCHARD INDUSTRIES, INC., ACTIONFLEX DIV.
912 West State St., Hastings, Mich. (Tel. WIndsor 5-3404)
Mgr.: Ernest H. Jacoby

ORDNANCE DIV.-FOOD MACHINERY & CHEMICAL CORP.
1105 Coleman Ave., San Jose, Calif. (Tel. CYpress 4-8124)
Mgr., Procurement: H. L. Hall
Purchasing: H. V. Rogers
Exp. Procurement: T. R. Johnson
Mgr., Application Engrg.: H. Hammond **GS, GH, R&D**

ORGANIC PRODUCTS CO.
2000 E. Irving Blvd., Irving, Tex. (Tel. BL 4-4342)
Gen. Mgr.: Bert Wilson
Plant Mgr.: S. S. Montgomery **MM**

ORRADIO INDUSTRIES, INC.
Shamrock Circle, Opelika, Ala. (Tel. SHerwood 5-5771)
Purch. Agent: Thad McEachin
V. P.-Sales: Nat Welch

ORTHO FILTER CORP.
196 Albion Ave., Paterson 2, N. J. (Tel. MUlberry 4-5858)
Purch. Agent: William Levine
Buyer: William McGravey

ORTMAN-MILLER MACHINE CO. INC.
19 143rd St., Hammond, Ind. (Tel. WEstmore 1-1710)
Dir.-Purch.: A. H. Ortman
Dir.-Sales: N. H. Ortman **GS, GH, R&D**

ORYX CO.
9015 Wilshire Blvd., Beverly Hills, Calif. (Tel. BRadshaw 2-6635)

OSBORNE ELECTRONIC SALES CORP.
712 S. E. Hawthorne Blvd., Portland, Ore. (Tel. BElmont 2-0161)
Purch. Agent: C. E. Stonecipher
Sales Mgr.: T. E. Murphy **GE, CO, TS, MM**

JOHN OSTER MFG. CO., AVIONIC DIV.
One Main St., Racine, Wisc. (Tel. MElrose 3-6331)
Purch. Agent: Roy Arcand
Asst. Purch. Agent: Robert Stratman
Buyers: Ray Carlson, Anthony Methenitis, Roy Woods, Parnell Bjerke & Hugo Zerbe
Eastern Sales Mgr.: Irving G. Epstein
Western Sales Mgr.: Ward S. Carlson **PS, GS, GE, TS**

OTIS ELEVATOR CO., ELECTRONIC DIV.
35 Ryerson St., Brooklyn 5, N. Y. (Tel. ULster 5-6800)
Purch. Agent: B. Katz
Mgr., Customer Relations Dept.: J. B. McKinley
GS, GH, CO, TS

OVERLOAD CONTROL CO.
151 Pennsylvania Ave., Island Park, N. Y. (Tel. GEneral 2-1431)
Purch.: R. Ronnie
Sales: Earl Elwyn Smith **PS, GS, TS**

OWATONNA TOOL CO.
Owatonna, Minn. (Tel. 5591)
Purch. Agent: Clarence P. Kaplan
Dir.-Sales: J. A. Mullenmaster

OXFORD COMPONENTS, INC.
556 W. Monroe St., Chicago, Ill. (Tel. FInancial 6-3623)
Gen. Mgr.: T. Brown **GE**

OXYGEN EQUIPMENT & SERVICE CO.
8335 S. Halsted St., Chicago 20, Ill. (Tel. HUdson 3-3800)
Pres.: Albert E. McKee
Purch. Agent: Donald J. Freeburg

OZONE METAL PRODUCTS CORP.
101-32 101st St., Ozone Park 16, N. Y. (Tel. VIrginia 6-3300)
Pres.: Phillip Wiebel
Purch. Agent: E. Kulick
V. P.-Sales: W. E. Criley **PS, GS**

PCA ELECTRONICS INC.
16799 Schoenborn St., Sepulveda, Calif. (Tel. EMpire 2-0761)
Purch. Agent: Paul Kliebert
Sales Mgr.: Charles Rubin **GS, GH, GE, CO, TS**

PIC DESIGN CORP., SUB.-BENRUS WATCH CO., INC.
477 Atlantic Ave., E. Rockaway, L. I., N. Y. (Tel. LYnbrook 3-6470)
Purch. Agent: Mrs. T. Balzer
Sales: P. Wellenberger
MF, WN, PS, GS, GH, GE, CO, TS, TR, MM, R&D

P.S.P. ENGRG. CO., DIV.-INDUCTION MOTORS CORP.
6058 Walker Ave., Maywood, Calif. (Tel. LUdlow 3-4785)
Dir.-Purch.: Robert Morris
Sales Mgr.: Lee Lambert **GS, GE, CO, TS**

PACE ELECTRICAL INSTRUMENTS CO., INC.
70-31 84th St., Glendale 27, L. I., N. Y. (Tel. DAvenport 6-3982)
Dir.-Purch.: A. S. Weingast
Industrial Sales Mgr.: G. N. Goldberger

PACE ENGRG. CO.
13035 Saticoy St., N. Hollywood, Calif. (Tel. PO 5-0453)
Purch. Agent: Sid Becker **CO, TS, TR, R&D**

PACIFIC AUTOMATION PRODUCTS, INC.
1000 Air Way, Glendale, Calif. (Tel. CHapman 5-6871)
Purch. Agent: Roland Eatrom
Chief Liaison Engr.-Sales: William W. Buckley
GS, GH, TR

PACIFIC COAST ENGRG. CO.
Oak & Clement Sts., P. O. Drawer "E", Alameda, Calif. (Tel. LA 2-6100)
Purch. Agent: M. H. LaRue
Gen. Sales Mgr.: J. P. Tepley

PACIFIC CUT WASHER CO.
2501 E. 56th St., Huntington Park, Calif. (Tel. LUdlow 3-6781)
Gen. Mgr.: J. R. Bougher
Sales Mgr.: John Remmers **MM**

PACIFIC MAGNETIC CORP.
Electronic Center, Romoland, Calif. (Tel. Perris Exchange, OLympia 7-2637)
Purch. Agent: J. A. Thomas
Pres.: H. L. Mills
Dir.-Engrg.: Gordon W. Johnson
Dir.-Sales: J. A. Thomas **GS, CO, TS**

PACIFIC MOULDED PRODUCTS CO.
905 E. 59th St., Los Angeles 1, Calif. (Tel. ADams 1-1151)
Purch. Agent: William Okray
V. P.-Sales: C. E. Wilson **MF, WN, PS, GE, MM**

PACIFIC OPTICAL CORP.
120 Glasgow, Inglewood, Calif. (Tel. ORegon 8-1139)
Purch. Agent: Fred Hansen
Pres.: John Ryde **TR**

PACIFIC RADIONICS
2586 E. 67th St., Long Beach 5, Calif. (Tel. NEvada 6-0545)
Purch. Agent: M. Binkley
Dir.-Sales: C. C. Moore
MF, WN, PS, GS, GH, GE, CO, TS, TR, MM, R&D

PACIFIC RESISTOR & CABLE CO.
2186 Colorado Ave., Santa Monica, Calif. (Tel. EX 3-0531)
Pres.: H. Guiness **GS, GH, GE**

PACIFIC SCIENTIFIC CO.
P. O. Box 22019, Los Angeles 22, Calif. (Tel. SPruce 3-2020)
Dir.-Sales & Serv.: Andre W. Reichel

CODING
Missile Frame MF
Warhead & Nose Cone WN
Propulsion System PS
Ground Support GS
Ground Handling GH
Guidance Equipment GE
Checkout Equipment CO
Test Equipment TS
Tracking & Telemetering TR
Research & Development R&D
Materials & Metals MM

Purch. Mgr.: M. R. Hartigan
Buyers: Tim Tapping, L. B. Herr, Lee Marshek

PACIFIC SEMICONDUCTORS, INC.
10451 W. Jefferson Blvd., Culver City, Calif. (Tel. TExas 0-4881)
Purch. Agent: Harry Rosen
Sales Mgr.: S. L. Spiegel **GE, TR**

PACIFIC TUBE CO.
5710 Smithway St., Los Angeles 22, Calif. (Tel. RAymond 3-1331)
Purch. Agent: W. H. Kepp
Sales Mgr.: W. P. Armstrong **MF**

PACIFIC UNIVERSAL PRODUCTS CORP.
168 Vista Ave., Pasadena, Calif. (Tel. RYan 1-7646)
Mgr.: Charles Chopnick
MF, PS, GS, GH, GE, CO, TS, TR

PACIFIC VALVES, INC.
3201 Walnut Ave., Long Beach, Calif. (Tel. GArfield 7-5451; NEvada 6-9811)
Dir.-Sales: Robert C. Macaulay **TS**

PACKARD ELECTRIC DIV.-GENERAL MOTORS CORP.
Dana St., Warren, O. (Tel. 3250-1)
Procurement Mgr.: D. E. Tritten
Buyers: L. Raymond Clutter, K. F. Dymond, G. E. Gibbons, H. H. Grebe
Dir.-Sales & Engrg.: L. C. Wolcott
MF, PS, GS, GH, GE, TS, TR, MM

***PACKARD-BELL ELECTRONICS CORP.**
12333 W. Olympic Blvd., Los Angeles 64, Calif. (Tel. BRadshaw 2-2171)
Mgr.-Material: Wm. Winckler
Purch. Agent: H. S. Crawford
Dir.-Sales & Admin.: Hugh L. Vick
GS, GH, CO, TR, R&D
*(See Page 64 for Advertisement)

PACO ELECTRONICS CO., INC.
70-31 84th St., Glendale 27, L. I., N. Y. (Tel. DAvenport 6-3982)
Dir.-Purch.: A. S. Weingast
Sales Mgr.: S. S. Sparer

PALMER THERMOMETERS, INC.
2501 Norwood Ave., Cincinnati, O. (Tel. ME 1-1500)
Purch. Agent: S. Rolfsen
Sales & Adv. Mgr.: Douglas H. Hitt
PS, GE, CO, TS, TR

PALO ALTO ENGRG. CO.
620 Page Mill Rd., Palo Alto, Calif. (Tel. DA 6-5360)
Purch. Agent: Roger Earley
Sales Engr.: Lloyd Burkhart **GE, TR**

***PAN AMERICAN WORLD AIRWAYS, INC., GUIDED MISSILES RANGE DIV.**
135 E. 42nd St., New York 17, N. Y. (Tel. OXford 7-6300)
Pres.: Juan T. Trippe
V. P.'s: Samuel F. Pryor, John C. Leslie & Richard S. Mitchell
*(See Page 44 for Advertisement)

PANDUIT CORP.
14461 Waverly Ave., Midlothian, Ill. (Tel. HIlltop 5-3134) (Chicago)
Sales Mgr.: J. E. Caveney

PANEL ENGRG. CORP.
222 W. Huron St., Chicago 10, Ill. (Tel. SUperior 7-8461)
Pres.: Robert K. Cameron **GE, TR, R&D**

PANORAMIC RADIO PRODUCTS, INC.
520 S. Fulton Ave., Mt. Vernon, N. Y. (Tel. OWens 9-4600)
V. P.-Purch.: Samuel Kleinman
MF, PS, GS, GE, CO, TS, TR

PAPER MFRS. CO.
9800 Bustleton Ave., Philadelphia 15, Pa. (Tel. ORchard 3-4500)
Dir.-Purch.: J. Walker
Chicago Fld. Sales Reps.: Robert J. Moore & Samuel Du Bois, 510 N. Dearborn St., Chicago, Ill.
N. Y. State (Northern) Fld. Sales Rep.: Don Carroll, 308 Collins Ave., Fayetteville, N. Y.
N. Y. & N. J. Fld. Sales Rep.: Joseph I. Shields (Tel. N. Y. C.—Digby 9-3720)
N. Y. C. & New England Fld. Sales Rep.: Charles R. Weber, Philadelphia office **TR**

PAPESCH & KOLSTAD, INC.
P. O. Box 3726, 10703 Capital Ave., Oak Park 37, Mich. (Tel. LIncoln 7-6400)
V. P.-Purch.: M. R. Papesch **MF, WN, PS, GS, TS**

PARAGON ELECTRIC CO.
1600 12th St., Two Rivers, Wisc. (Tel. 303)
Purch. Agent: G. J. Powalish
V. P.-Sales: Read W. Eldred **CO**

PARAGON-REVOLUTE CORP.
77 South Ave., Rochester 4, N. Y. (Tel. BAker 5-2480)
Purch. Agent: W. T. Nurse
Asst. Purch. Agent: Helen Schaefer
Sales Mgr.: B. W. Johnson

PARAMETERS, INC.
195 Herricks Rd., New Hyde Park, N. Y. (Tel. PIoneer 6-0155)
Sales Mgr.: John R. Crawford **MF, PS, GS, GE, TS**

PARAMOUNT DESIGNS CO.
408 Jay St., Brooklyn 1, N. Y. (Tel. UL 5-6161)
Dir.-Tech. Services: Bert K. Graham
Supvr.-Field Services: S. Davidowitz
Sales Mgr.: William Varley (Tel. OVerbrook 1-1700)
GS, GE, TR, R&D

PARAMOUNT PAPER TUBE CORP.
614 S. Lafayette St., Ft. Wayne 2, Ind. (Tel. A-4197)
Gen. Mgr.: R. R. Weimer **MF, PS**

PARAPLEGICS MFG. CO., INC.
10066 Franklin Ave., Franklin Park, Ill. (Tel. GLadstone 5-1697)
Purch. Agent: Alvin F. Engel
Dir.-Sales: Harry G. Bendtsen **GS, CO**

PARISH PRESSED STEEL, DIV.-DANA CORP.
Box 1422, Robeson & Weiser Sts., Reading, Pa. (Tel. FRanklin 3-4211)
Dir.-Purch.: E. R. Kohl
Purch. Agent: W. H. Fahnestock
Buyers: C. R. Kline & E. Hartman
Sales Mgr.: S. L. Whitehall **MF, WN, PS, GS, GH**

PARK NAMEPLATE CO., INC.
34-10 Linden Pl., Flushing 54, N. Y. (Tel. FLushing 9-7000)
Purch. Agent: Charles Birnbach
V. P.-Sales: David Kend **MM**

PARKER AIRCRAFT CO.
5827 W. Century Blvd., Los Angeles 45, Calif. (Tel. SP 6-1221)
Purch. Agent, Hydraulic Div.: E. Hillock
Purch. Agent, Air & Gas Div.: W. Parker
Purch. Agent, Missile Fittings Div.: T. Jones
V. P.-Sales: A. V. Zukas **GS, GH, MM, R&D**

PARKER FITTINGS & HOSE DIV., PARKER-HANNIFIN CORP.
17325 Euclid Ave., Cleveland 12, Ohio (Tel. KE 1-3000)
Purch. Agent: F. A. Jenkins
Gen. Sales Mgr.: D. A. Cameron
Div. Sales Mgr.: W. D. Wynant **PS, GS, GH**

PARKER HYDRAULICS DIV., PARKER-HANNIFIN CORP.
17325 Euclid Ave., Cleveland 12, Ohio (KE 1-3000)
Purch. Agent: E. J. Anderson
Gen. Sales Mgr.: D. A. Cameron
Div. Sales Mgr.: E. C. Davis **GS, GH**

PARKER SEAL CO., DIV.-PARKER-HANNIFIN CORP.
10567 Jefferson Blvd., Culver City, Calif. (Tel. VErmont 9-1161)
Purch. Agent: Paul Glasford
V. P.-Sales: T. J. McCuistion
MF, WN, PS, GS, GH, GE, CO, TS, TR, MM, R&D

PARKER-HARTFORD CORP., THE
Franklin Ave., Hartford, Conn. (Tel. CHapel 6-1651)
V. P.-Purch.: Tom Daly
Sales Mgr.: Wesson Miller **GE, TR**

RALPH M. PARSONS CO., THE, ELECTRONICS DIV.
151 S. De Lacey Ave., Pasadena, Calif. (Tel. Los Angeles—RYan 1-0461)
Mgr.-Proc.: Daniel M. Ogden
Mgr.-Bus. Dev.: Edson C. Lee **GS, CO, TS, TR**

PARSONS DIAMOND PRODUCTS, INC.
22 Grassmore Ave., West Hartford 10, Conn. (Tel. ADams 6-2303)

PARTS ENGRG. CO., INC.
760 N. Marshall Ave., El Cajon, Calif. (Tel. HIckory 4-9481)
Purch. Agent: Charles W. Sandlin
Dir.-Sales: James J. Kinsella **MF, PS, GH, R&D**

PATTERSON, MOOS DIV.-UNIVERSAL WINDING CO., INC.
90-28 Van Wyck Expressway, Jamaica 18, N. Y. (Tel. AXtel 7-4400)
Purch. Agent: Howard L. Abeel
V. P.-Sales: Dr. Anthony M. Moos
WN, PS, GS, GH, GE, CO, TS, TR, R&D

PATWIN, DIV.-PATENT BUTTON CO.
41 Brown St., Waterbury 20, Conn. (Tel. PLaza 6-3636)
Purch. Agent: W. A. Carpenter
Sales Mgr.: F. O. Stratton

F. H. PAUL & STEIN BROTHERS, INC.
235 5th Ave., New York 16, N. Y. (Tel. MU 4-6370) **PS**

PAUL & BEEKMAN, INC.
1801 Courtland St., Philadelphia 40, Pa. (Tel. DAvenport 9-9050)
Works Mgr.: David R. Barnhart
V. P.-Sales: J. E. Schmidt
MF, WN, PS, GS, GH, GS, TS, TR

HOWARD E. PAYNE
56 Beaverbrook Dr., Dayton 32, Ohio (Tel. CHapel 4-5600)
Consultant & Representative

PEARSON ELECTRONICS, INC.
707 Urban Lane, Palo Alto, Calif. (Tel. DA 5-3147)
Pres.: Dr. Paul A. Pearson

PECK & HARVEY MFG. CORP.
5650 N. Western Ave., Chicago 45, Ill. (Tel. EDgewater 4-2200)
Purch. Agent: Burt Kemp
Sales Mgr.: S. A. Harvey **R&D**

PEE CEE TAPE & LABEL CO.
521 N. La Brea Ave., Los Angeles 36, Calif. (Tel. WEbster 8-2134)
Purch. Agent: C. W. Richardson
Gen. Mgr.: Sydney Gevirtz
Sales Mgr.: Don Gevirtz

PEER, INC.
1220 Milton St., Benton Harbor, Mich. (Tel. WAlnut 5-8828)
Mgr.: Alton B. Parrott

PEERLESS ELECTRIC CO., THE
1401 W. Market St., Warren, Ohio (Tel. EXpress 3-1551)
Purch. Agent: R. C. Isler
Mgr., Fan & Blower Div.: Walter A. Curtis

PEERLESS ELECTRONICS INC.
5338 Alhambra Ave., Los Angeles 32, Calif. (Tel. CApitol 1-5196)
Sales: Robert Monroe
Purch. Agent: E. N. Hough **GS, GH, GE, R&D**

PEERLESS MACHINE CO.
5338 Alhambra Ave., Los Angeles 32, Calif. (CApitol 1-5196)
Office Mgr.: E. N. Hough
Sales Mgr.: E. A. Pierson **MF**

PEERLESS PATTERN WORKS
29 Clinton Ave., Middletown, Conn.
Alfred P. Schultze

PEERLESS PHOTO PRODUCTS INC.
Tesla Rd., Shoreham, N. Y. (Tel. 4-2817)
Purch. Agent: Pat Hajek
Sales: Arthur Taber **GS**

PEERLESS PRODUCTS INDUSTRIES
812 N. Pulaski Rd., Chicago 51, Ill. (Tel. BElmont 5-9883)
Buyer: Walt Griffing
Sales Mgr.: V. Mathews **MF, WN, PS, GS, GE, TR**

PEERLESS PUMP DIV., FOOD MACHINERY & CHEMICAL CORP.
301 West Ave. 26, Los Angeles 31, Calif. (Tel. CApitol 1-3151)
Purch. Agent: W. I. Nye
Sales Mgr.: E. W. Lundy **PS, GS, GH, TS**

PEIRCE DICTATION SYSTEMS
5900 N. Northwest Hwy., Chicago 31, Ill. (Tel. ROdney 3-3220)
V. P.-Purch.: Emil C. Steinbach
Purch. Agent: Stanley L. Domin **R&D**

PENBERTHY MFG. CO.
1242 Holden St., Detroit 2, Mich. (Tel. TRinity 5-0900)
Sales Mgr.: A. N. Lindeman **GS, GH, CO**

PENETONE CO., THE
Tenafly, N. J. (Tel. LOwell 7-3000)
Gen. Mgr.: H. R. Haskell
Purch. Agent: C. Goldberg
Dir.-Sales: H. E. Roberts **WN, PS, GS, GH**

PENFIELD MFG. CO., INC.
19 High School Ave., Meriden, Conn. (Tel. BE 5-1694)
Gen. Mgr.: Edward H. Clohessy

PENN FIBRE & SPECIALTY CO., INC.
2024 El Westmoreland St., Philadelphia 34, Pa. (Tel. REgent 9-5642)
V. P.-Sales: William K. Davis
Purch. Agent: William H. Frey
Asst. Purch. Agent: J. P. Dwyer, Jr.
MF, WN, PS, GE, TR

PENN KEYSTONE CORP.
100 Hawkins St., P. O. Box 350, Derby, Conn. (Tel. REgent 4-3301)
Purch. Agent: Robert A. Nagel
Dir.-Engrg. & Sales: Rollin O. Vanderbeek
WN, GS, CO, R&D

PENN-MICHIGAN MFG. CORP.
220 S. Kirk St., West Lafayette, Ohio (Tel. Lincoln 5-6311)
Purch. Agent: L. F. Howbert
Asst. Purch. Agent: William Lilja
Sales Mgr.: J. S. Hall **MM**

PENNSALT CHEMICALS CORP.
3 Penn Center, Philadelphia 2, Pa. (Tel. LOcust 4-4700)
Mgr., Commercial Dev. Dept.: R. W. Sloan
PS, MM, R&D

PENNSYLVANIA PUMP & COMPRESSOR CO.
Easton, Pa. (Tel. 3-4276)
Purch. Agent: R. Beadell
Sales Mgr.: W. E. Anderson **GS, GH**

PENN-TRAN CORP.
E. Bishop St., Ext., Bellefonte, Pa. (Tel. ELgin 5-4747)
Purch. Agent: E. E. Grine
Secy.-Treas.: N. H. Krauss

PENTA LABS., INC.
312 N. Nopal St., Santa Barbara, Calif. (Tel. WOodland 5-4581)
Purch. Agent: J. D. Thwing
Sales Mgr.: R. L. Norton **GS, CO, TS, R&D**

PERFECTION INDUSTRIES, DIV.-HUPP CORP.
1135 Ivanhoe Rd., Cleveland 10, O. (Tel. ULster 1-6200)
Purch. Agent: J. S. Zorn
V. P., Mobile Products: F. W. Hottenroth
Mgr., Specialty Sales, Mobile Products: W. E. Hamilton
Mgr., Heater Sales, Mobile Products: H. C. Gerboth
Buyers: D. Fetzer & H. H. Haldeman **GS, GH, R&D**

PERFECTO CAST
5660 Kearney Villa Rd., San Diego 11, Calif. (Tel. BRowning 7-6711)
Plant Mgr.: Ralph F. Carlson
Pres.: George Wilson **MM, R&D**

PERFORMANCE MEASUREMENTS CO.
15301 W. McNichols Rd., Detroit 35, Mich. (Tel. VErmont 8-7879)
Purch. Agent: Harry Edwards
Sales Mgr.: Louis H. Larime **CO, TS**

PERKIN ENGRG. CORP.
345 Kansas St., El Segundo, Calif. (Tel. OR 8-7215)
Purch. Agent: Pat Cerella
Sales Mgr.: George W. Mousel **GS, CO, TS, TR, R&D**

PERKIN-ELMER CORP.
Main Ave., Norwalk, Conn. (Tel. VIctor 7-2422)
Dir.-Purch.: Patrick O'Gorman
Asst. Purch. Agent: George Hodge
Electronic Buyer: Arthur Cummings
Buyers: William Douda, David Fournier, Lew Jason
Sales-Electro-Optical Div.: C. B. Hazzard
Sales-Instrument Div.: John H. Rhodes
Sales-Vernistat Div.: Eugene W. Dunstan
GS, CO, TS, TR

PERKINS MACHINE & GEAR CO.
Circuit Ave., West Springfield, Mass. (Tel. REpublic 7-4751)
Sales Mgr.: Philip O'Shan **GS, GE**

PERMACEL
U. S. Hwy. #1, New Brunswick, N. J. (Tel. CHarter 7-7900)
Purch. Agent: J. S. Babiy
Buyers: J. E. Grover & G. Radcliffe
V. P.-Sales: G. A. Fitzgerald

PERMANENT FILTER CORP.
1800 W. Washington Blvd., Los Angeles 7, Calif. (Tel. REpublic 1-7381)
Chief Purch. Agent: Gardner Reynolds
Sales Mgr.: Charles Schaefer **PS, GS, GH, GE, TS**

PERMATEX CO., INC.
300 Broadway, Huntington Sta., N. Y. (Tel. HAmilton 1-3800)
Purch. Agent: K. Carpenter, Jr.
Sales Mgr., Indsl. Div.: Frank P. Reggio **GS, MM**

PERMAX PRODUCTS DIV., CHISHOLM-RYDER CO., INC.
Highland & College Ave., Niagara Falls, N. Y. (Tel. BUtler 5-9186)
Dir.-Purch.: Larry Fischer
Mgr.-Permax Div.: B. B. Mitchell

PERMOFLUX PRODUCTS CO.
4101 San Fernando Rd., Glendale 4, Calif. (Tel. CHapman 55-135)
Purch. Agent: S. H. Ise
Dir.-Sales: L. M. Heineman
GS, GH, GE, CO, TS, TR

PERRY PLASTICS, INC.
3409 W. 14th St., Erie, Pa. (Tel. 6-2961)
Purch. Agent: Harold K. Siegmund
Dir.-Sales & Defense Contract Officer: Lincoln S. Love

PESCHEL ELECTRONICS, INC.
R.F.D. 1, Patterson, N. Y. (Tel. TRinity 8-3251)
Pres.: Stephen S. Peschel **GS, GE, CO, TS, TR**

PESCO PRODUCTS DIV.-BORG-WARNER CORP.
24700 N. Miles Rd., Bedford, Ohio (Tel. MOntrose 2-2100)
Mgr.-Purch.: H. L. Sanders
Purch. Agent, Non-Prod.: G. T. Weidinger
Purch. Agent, Prod.: W. C. Erwin
V. P.-Sales: M. W. Nesbitt **PS, GS, GE, R&D**

PETTIBONE MULLIKEN CORP.
4700 W. Division St., Chicago, Ill. (Tel. SPaulding 2-9300)
Purch. Agent: T. M. Cavender
Asst. Purch. Agent: H. T. Samuels
Steel Buyer: C. R. Slocum
Fabricated Parts Buyers: L. Knapp, A. J. Salmon, W. C. Hinz
Sales: J. M. Hume **MF, WN, GS**

PHALO PLASTICS CORP.
530 Boston Tpke., Shrewsbury, Mass. (Tel. VIking 4-4021)
Purch. Agent: H. A. Werme
V. P.-Sales: A. N. Averill

PHAOSTRON INSTRUMENT & ELECTRONIC CO.
151 Pasadena Ave., S. Pasadena, Calif. (Tel. CLinton 5-1471)
Purch. Agent: Al Lowenstein
V. P.-Sales: H. J. Veitch
WN, PS, GS, GE, CO, TS, TR

PHELPS DODGE COPPER PRODUCTS CORP.
300 Park Ave., New York, N. Y. (Tel. PLaza 1-3200)
Purch. Agent: P. G. Lee
Mgr.-Styroflex Cable Div.-Sales: F. W. Lemly
GS, GH, CO, TS

PHILADELPHIA GEAR WORKS, INC.
Erie Ave. & G St., Philadelphia, Pa. (Tel. GA 6-9400)
Purch. Agent: Mr. Marts
Sales Mgr.: Howard Murray **PS, GS**

PHILADELPHIA INSULATED WIRE CO.
200 N. 3rd St., Philadelphia 6, Pa. (Tel. MArket 7-0456)
Purch. Agent: E. B. Sheridan, Sr.
Sales Mgr.: Robert W. Campbell
GE, CO, TS, TR, MM, R&D

GEORGE A. PHILBRICK RESEARCHES, INC.
285 Columbus Ave., Boston 16, Mass. (Tel. CO 6-5375)
Gen. Mgr.: John F. Dowd
Sales & Appl. Engrg.: Daniel H. Sheingold **R&D**

PHILCO CORP., GOVERNMENT & INDUSTRIAL DIV.
4700 Wissahickon Ave., Philadelphia 44, Pa. (Tel. VIctor 3-4000)
Purch. Mgr.: John R. McAllister
Mktg. Mgr.-Govt. Prods.: Frank D. Langstroth
GS, GH, GE, CO, TS, TR, R&D

PHILCO CORP., LANSDALE TUBE CO. DIV.
Church Rd., Lansdale, Pa. (Tel. ULysses 5-4681)
Purch. Agent: A. G. McIlvaine
Buyers: Alan Dayton, W. R. Lewis, R. Haughs, E. C. Lutz, B. Carroll, C. Cressman
Asst. Buyer: Mary Bartholemew
Gen. Sales Mgr.: Cyrus H. Warshaw **R&D**

PHILIPS & DAVIES INC.
1030 Steiner Ave., Kenton, O. (Tel. 2-1120)
Purch. Agent: G. R. Leoffert
V. P.-Sales: J. W. Stuckey **MF, WN, GS, GH, TS**

PHILLIPS AVIATION CO.-MARPLES GEARS
1525 Monterey Rd., S. Pasadena, Calif. (Tel. RYan 1-1181)
Dir.-Purch.: George Bentz
Dir.-Sales: H. David McRae **GS, GH, GE**

PHOENIX PRODUCTS CO.
4715 N. 27th St., Milwaukee, Wis. (Tel. UP 1-1680)
Purch. Agent: H. W. Heard
Asst. Mgr., Metal Spinning Div.: Edwin Weiss
MF, WN, PS, GS, GE

PHOTOBELL CO., INC.
43 Vesey St., New York 7, N. Y. (Tel. WOrth 2-6739)
Purch. Agent: S. Faber
Gen. Mgr.: A. Edelman **MF, GH, GE, CO, TS, TR**

PHOTOCON RESEARCH PRODUCTS
421 N. Altadena Dr., Pasadena, Calif. (Tel. SYcamore 2-4131)
Purch. Agent: Jean Hicks (Tel. RYan 1-6752)
Dir.-Sales: P. C. Ganzell **CO, R&D**

PHOTO-CRYSTALS, INC.
15 S. First St., Geneva, Ill. (Tel. GEneva 7150)
Purch. Agent: W. A. Bailey
Secy.-Treas.: J. J. Bailey **TS, R&D**

PHOTOGRAMMETRY, INC.
922 Burlington Dr., Silver Spring, Md. (Tel. JUniper 5-4600)
Purch. Agent: H. B. Miracle **R&D**

PHOTOMATION, INC.
96 S. Washington Ave., Bergenfield, N. J. (Tel. DUmont 4-3411)
Dir.-Purch.: H. Sarube

PHOTOVOLT CORP.
95 Madison Ave., New York 16, N. Y. (Tel. MUrray Hill 6-3350)
Purch. Agent: H. W. Lindemann
V. P.-Sales: B. A. Silard **CO, TS, R&D**

PHOTRON INSTRUMENT CO.
6516 Detroit Ave., Cleveland 2, O. (Tel. ATlantic 1-7020)
Sales: N. H. Fayerweather **TS**

PHYSICS RESEARCH LABORATORIES, INC.
P. O. Box 555, Hempstead, N. Y. (Tel. IVanhoe 3-8299)
Tech. Dir.: J. B. Kelley
Mgr.: J. G. Goward **TS, R&D**

PIASECKI AIRCRAFT CORP.
Island Rd., International Airport, Philadelphia 42, Pa. (Tel. SAratoga 7-9750)
Acting Purch. Agent: William M. Collins
Treas.: J. J. Hensel
Pres.-Sales: F. N. Piasecki
MF, WN, GS, GH, R&D

PICKER X-RAY CORP.
25 S. Broadway, White Plains, N. Y. (WH 8-0080)
TS, R&D

PICKERING & CO., INC.
Sunnyside Blvd., Plainview, L. I., N. Y. (Tel. OVerbrook 1-0200)
Purch.: Richard Neuffer **GS, GE, CO**

PIEZO CRYSTAL CO.
265 E. Pamfret St., Carlisle, Pa. (Tel. 1495)
Dir.-Purch. & Sales: Herman Shall
V. P.: Wallace Samuelson **GE, TR**

PILGRIM PRODUCTS INC.
277 Central St., West Acton, Mass. (Tel. Acton, COlonial 3-7368)
Purch. Agent: Marie E. Houghton
Gen. Mgr.: L. P. Wilder **MM**

PILOT CHEMICALS, INC.
36 Pleasant St., Watertown 72, Mass. (Tel. WAtertown 4-7775)
Business Mgr.: M. A. Sigal **MM, R&D**

PINES ENGRG. CO. INC.
601 Walnut St., Aurora, Ill. (Tel. TW 6-7701)
Purch. Agent: W. J. Carlson
Asst. Purch. Agent: J. J. McKeaige
Sales Mgr.: J. E. Hawking

PIONEER ALUMINUM INC.
5251 W. Imperial Hwy., Los Angeles 45, Calif. (Tel. ORegon 8-7621)
Purch. Agent: K. R. Cannon
V. P.-Sales: Vern Ammerman **MF, PS, GH**

PIONEER INDUSTRIES DIV., ALMAR-YORK CO. INC.
3455 W. Vickery, Fort Worth 7, Tex. (Tel. ED 2-7387)
Pres.: A. W. Stubbeman, Sr.
V. P.-Sales: Frank B. Self **TS, MM, R&D**

PIONEER PARACHUTE CO., INC.
168 Forrest St., Manchester, Conn. (Tel. MItchell 9-5211)
Pres.: Lyman H. Ford

PIONEER TOOL & ENGRG. CO.
7401 W. Lawrence Ave., Chicago 31, Ill. (Tel. UNderhill 7-7500)

CODING

Missile Frame	MF
Warhead & Nose Cone	WN
Propulsion System	PS
Ground Support	GS
Ground Handling	GH
Guidance Equipment	GE
Checkout Equipment	CO
Test Equipment	TS
Tracking & Telemetering	TR
Research & Development	R&D
Materials & Metals	MM

Purch. Agent: Harry Kaminski
Sales Engr.: M. W. Punch **WN, GS, GE, CO, TS**

PITTSBURGH CORNING CORP.
1 Gateway Center, Pittsburgh 22, Pa. (Tel. COurt 1-2900)
V. P.-Sales: R. E. Buckley
Purch. Agent: B. B. Caffo, P. O. Box 39, Port Allegany, Pa. (Tel. Port Allegany 2-2552)
Purch. Agent: G. E. Gibbs, P. O. Box 72, Sedalia, Mo. (Tel. TAylor 6-4660) **MM, R&D**

PITTSBURGH-DES MOINES STEEL CO.
3476 Neville Island, Pittsburgh 25, Pa. (Tel. FE 1-3000)
Purch. Agent: G. L. Bader
V. P. & Sales Mgr.: T. W. Fauntleroy **GS, GH, TS, R&D**

PLASTECK, INC.
P. O. Box 551, Poteau, Okla. (Tel. 705)
Purch. Agent: J. Ray Farley
Pres.: E. A. Neugass **MM**

PLASTIC AGE SALES, INC.
14300 Davenport Rd., Saugus, Calif. (Tel. NEwhall 1530)
Purch. Agent: Adolf Kramer
Sales Engrg. Coordinator: Edward M. Commeford **MF, WN, PS, MM, R&D**

PLASTIC FILM CO., INC.
Plainfield, Conn. (Tel. Moosup, Conn., LOgan 4-2741)
Controller: George E. Hagert
V. P.-Mgr., Indsl. Sales: T. A. Lancaster

PLASTOID CORP.
42-61 24th St., Long Island City 1, N. Y. (Tel. STillwell 6-6200)
Purch. Agent: Ernest Brown
Asst. Purch. Agent: Abe Rosenberg
Sales-Serv. Mgr.: Don J. Nichols, Hamburg, N. J. (Tel. Van Dyck 7-7141) **MF, PS, GS, GH, CO, TS, TR**

PNEU-HYDRO VALVE CORP.
364 Glenwood Ave., East Orange, N. J. (Tel. ORange 7-1200)
Purch. Agent: Robert Demmert
Pres.: George T. Stern **WN, PS, GS, GH, GE, CO, TS**

PNEUMAFIL CORP.
2516 Wilkinson Blvd., Charlotte, N. C. (Tel. EXpress 9-7441)
Purch. Agent: Thomas H. Lasley
Mechtronics Sales Mgr.: J. B. Dayton, Jr.
V. P.-Sales: J. Walter Barr **MM, R&D**

JOSEPH E. PODGER CO., INC.
16 S. Marshall St., Philadelphia 6, Pa. (Tel. WAlnut 5-7878)
Sales Mgr.: Willard A. Lees

POLARAD ELECTRONICS CORP.
43-20 34th St., Long Island City 1, N. Y. (Tel. EXeter 2-4500)
Dir.-Purch.: L. Lieberman
Buyers: Jack Marks, B. Flax, I. Wasserman & D. Rosenbloom
Sales Mgr.: A. A. Goldberg **CO, TS, TR, R&D**

POLAROID CORP.
119 Windsor St., Cambridge 39, Mass. (Tel. UNiversity 4-6000)
Dir.-Purch.: P. E. Sullivan
Asst. Dir.-Purch.: H. R. Pickering
Purch. Engr.: G. W. Bramhall
Sales Mgr., Polarizer Div.: J. H. Mulhall

JOSEPH POLLAK CORP.
85 Freeport St., Boston 25, Mass. (Tel. AVenue 2-9550)
V. P.-Purch.: Henry Brandt
Purch. Agent: James Burns
Sales Mgr.: H. A. MacDonald **R&D**

POLYKEN SALES DIV., THE KENDALL CO.
309 W. Jackson Blvd., Chicago, Ill. (Tel. WEbster 9-7100)
Dir.-Purch.: J. F. Karl
Gen. Sales Mgr.: W. J. Hodges **MM**

POLYMER CORP., THE
2120 Fairmont Ave., Reading, Pa. (Tel. FRanklin 6-7241)
Purch. Agent: Alvin S. Mallatratt
Sales Mgr.: Robert E. Barthold **MF, WN, PS, GS, GE, TR, MM**

POLYPHASE INSTRUMENT CO.
E. 4th St., Bridgeport, Montgomery Co., Pa. (Tel. BRoadway 9-4660)
Purch. Agent: D. C. Morris
Sales Mgr.: D. J. Seifert **GE, CO, TS**

POLY-SCIENTIFIC CORP.
College Ave., Blacksburg, Va. (Tel. PR 2-8212)
Purch. Agent: Herbert H. Albert
V. P.-Sales: A. S. Hackley **GE, R&D**

POLYTECHNIC RESEARCH & DEVELOPMENT CO., INC.
202 Tillary St., Brooklyn 1, N. Y. (Tel. ULster 2-6800)
Dir.-Purch.: Walter A. Cuskie
Electronic Buyers: Frank H. Roberts & James J. Alfieri
Subcontract Buyers: Alphonse Pristupa & A. C. Heldman
Misc. Buyer: John La Scala
Expediters: Walter Ezoch & Frank Sidoti
Sales Mgr.: Harry C. Nelson **TS**

POMONA ELECTRONICS CO., INC.
1126 W. 5th Ave., Pomona, Calif. (Tel. NAtional 9-9549)
Purch. & Sales Mgr.: Carl Wm. Musarra **GE, R&D**

POROLOY EQUIPMENT, INC.
14943 Califa St., Van Nuys, Calif. (Tel. STate 6-2670)
Purch. Agent: D. S. Draves
Dir.-Sales & Engrg.: W. N. Caldwell **PS, GS, GH**

PORTCHESTER INSTRUMENT CORP.
114 Wilkins Ave., Port Chester, N. Y. (Tel. WEstmore 9-4092)
Buyer: Mrs. Frances B. O'Brien
Pres.: Irving M. Gross **GE**

H. K. PORTER CO., INC.
74 Foley, Somerville 43, Mass. (Tel. PRospect 6-8200)
Purch. Agent: W. E. Coffey
V. P.-Sales: H. M. Webster **MF, WN, PS, GS, TS**

H. K. PORTER CO., INC., FORGE & FITTINGS DIV., CLEVELAND FORGE WORKS
3270 E. 79th St., Cleveland 4, Ohio (Tel. MI 1-5200)
Purch. Agent: P. A. Heideman
Sales Mgr.: E. M. Smith **GS, GH**

H. K. PORTER CO., INC., NATIONAL ELECTRIC DIV.
Porter Bldg., Pittsburgh, Pa. (Tel. EXpress 1-1800)
Purch. Agent: George L. Davis
Gen. Mgr.: R. C. Bennett, Jr.

H. K. PORTER CO., INC., THERMOID DIV.
Tacony & Comly Sts., Philadelphia 24, Pa. (Tel. JEfferson 3-4800)
Dir.-Purch.: T. J. Gorman
Gen. Sales Mgr.: E. G. Counselman **PS, GS**

PORTLAND COPPER & TANK WORKS INC.
80 2nd St., S, Portland, Me. (Tel. SPruce 9-3341)
Purch. Agent: Willard Jones
Buyer-Special Prods. Div.: John Curran
Sales Mgr.: Harry Higgins **MF, WN, PS, GS, GH, R&D**

POSITIVE LOCK WASHER CO., THE
181 Vanderpool St., Newark 5, N. J. (Tel. BIgelow 3-8460)
Gen. Mgr.: Fred J. Goll

L. POTTER, INC.
4040 Hempstead Tpke., Bethpage, N. Y. (Tel. PE 5-7000)
Asst. Treas.: O. P. Dieffenbach
Secy.: John Potter **GH**

POTTER AERONAUTICAL CORP.
U. S. Rt. 22, Union, N. J. (Tel. MUrdock 6-3010)
Purch. Agent: Harry Carlson
Gen. Sales Mgr.: Irving Hirsch **PS, GS, CO, TS**

POTTER & BRUMFIELD INC.
Princeton, Ind. (Tel. FUlton 5-5251)
Purch. Agent: Charles Schrader
Asst. Purch. Agent: Everett Cox
Gen. Sales Mgr.: Nelson Havill **GE**

POTTER CO., THE
1950 Sheridan Rd., N. Chicago, Ill. (Tel. DExter 6-4350)
Dir.-Purch.: Richard Glogovsky
Sales Mgr.: William L. Miller **PS, GS, GE, TR**

POTTER INSTRUMENTS CO., INC.
Cutter Mill Rd. at Ipswich, Great Neck, N. Y.

HAROLD H. POWELL CO.
2102 Market St., Philadelphia 3, Pa. (Tel. LOcust 7-5285)
Purch. Agent: Joseph Harris
V. P.: J. Lewis Powell **PS, GS, GE, CO, TS, TR**

POWER DESIGNS INC.
89-25 130th St., Richmond Hill, N. Y. (Tel. VIrginia 9-3675)
Purch. Agent: Irwin Wald
Chief Engr.: Milton Geller
Pres.: Herb Roth **TS, TR**

POWER SOURCES, INC.
South Ave., Burlington, Mass. (Tel. BRowning 2-3000)
Buyer: Bob Stetson
Sales Mgr.: Jon B. Jolly **GS, GE, TR**

POWER SUPPLIES INC.
Rt. 143, P. O. Box 169, Highland, Ill. (Tel. 2139)
Purch. Agent: Dale Rutz
Sales Mgr.: Dorsey Roejr **GS, CO**

POWERS REGULATOR CO., THE
3400 Oakton St., Skokie 66, Ill. (Tel. OR 3-6700)
Purch. Agent: R. C. Guhr
Asst. Purch. Agents: R. Bennett & V. Wiland

POWER-TRONIC SYSTEMS INC.
10 Pine Ct., New Rochelle, N. Y. (Tel. NE 2-2200)
Purch. Agent: J. Tranos
V. P.-Sales: Edmund D. Holland **GE, TR, R&D**

PRATT & WHITNEY AIRCRAFT DIV., UNITED AIRCRAFT CORP.
400 Main St., East Hartford 8, Conn.

PRECISE DEVELOPMENT CORP.
2 Neil Ct., Oceanside, N. Y. (Tel. Rockville Centre 6-0171)
Dir.-Sales: Melville Byron
Dir.-Purch.: Charles Rollings **GS, GE, CO, TS**

PRECISION APPARATUS CO., INC.
70-31 84th St., Glendale 27, L. I., N. Y. (Tel. DAvenport 6-3982)
Dir.-Purch.: A. S. Weingast
Sales Mgr.: S. S. Sparer

PRECISION CASTINGS, INC.
1550 Superior Ave., Costa Mesa, Calif. (Tel. LIberty 8-2278)
V. P.-Prod.: Charles R. Salmon
Dir.-Sales: John J. Hall **MF, GH, MM**

PRECISION CASTPARTS CORP.
4600 S. E. Harney Dr., Portland 6, Ore. (Tel. PRospect 5-4391)
Admin. Asst. for Purch.: Miss E. G. Graham
V. P. & Sales Mgr.: K. H. Pierce **MM, R&D**

PRECISION CIRCUITS, INC.
705 S. Fulton Ave., Mt. Vernon, N. Y. (Tel. MOunt Vernon 4-3737)
V. P.-Purch.: Herbert L. Schwartz
Dir.-Sales: Charles Sabel **GS, GE, CO, TS, TR, R&D**

PRECISION ELECTROPLATING CO.
519 S. Oakley Blvd., Chicago 12, Ill. (Tel. SEeley 3-5855)
Dir.-Purch.: James Zacharias
Dir.-Sales: Richard Zacharias **MF, WN, PS**

PRECISION EQUIPMENT CO., INC.
1740 Crenshaw Blvd., Torrance, Calif. (Tel. NEvada 6-5701)
Production Coordinator: John Pavack
Pres.: Richard Gilman **GS**

PRECISION, INC.
4748 France Ave. N., Minneapolis, Minn. (Tel. JU 8-9441)
Pres.: A. H. Benner
V. P.-Sales: D. G. Benner **GE**

PRECISION LINE INC.
63 Main St., Maynard, Mass. (Tel. TWin Oaks 7-2451)
Gen. Mgr.: L. M. Burgess
Sales Mgr.: Paul Hokanson **MF, GS, GE, TS, TR, R&D**

PRECISION METALSMITHS, INC.
1081 E. 200 St., Cleveland 17, Ohio (Tel. IVanhoe 1-8900)
Purch. Agent: E. K. Hutchinson
Sales Mgr.: W. W. Lamb **GE**

PRECISION METHODS & MACHINES DIV.-TEXTRON INC.
Cumberland Dr., Waterbury 20, Conn. (Tel. PLaza 6-3651)
Dir.-Purch.: Edward Jankowski
Buyers-Proj. Engrg.: Thomas Kepinski & Ross Upton
Sales Engr.: K. T. Starkweather **GS, GH**

PRECISION PLATING CO., INC., THE
Field Rd., Somers, Conn. (Tel. THompsonville, RI 9-8337)
Pres.: Theodore M. Bauer
Office Mgr.: Richard H. Bauer **PS, GE, R&D**

PRECISION RESISTOR CO. INC.
109 U. S. Hwy. No. 22, Hillside, N. J. (Tel. BIgelow 3-3809)
L. E. Wright, Jr. **GE, TR**

PRECISION SHAPES, INC.
15 Washington Ave., Suffern, N. Y. (Tel. SUffern 5-0226)
Procurement Mgr.: Ronald Lockyer
Sales Mgr.: Norman M. Dickson **MF, MM**

PRECISION SHEET METAL, INC.
5235 W. 104th St., Los Angeles 45, Calif. (Tel. SPring 6-2620)
Sales Mgr.: Frank Csupak
Material Mgr.: Russ Manning **MF, GS, GH, R&D**

PRECISION THERMOMETER & INSTRUMENT CO.
1434 Brandywine St., Philadelphia 30, Pa. (Tel. RIttenhouse 6-6671)
Purch. Agent: I. H. Shubin
Sales Mgr.: Carl H. Waser

PRECISION TUBE CO., INC.
Church Rd. & Wissahickon Ave., North Wales, Pa. (Tel. OXbow 9-4806)
Purch. Agent: Otto Chvoka
V. P.-Sales: Matthew F. Balch, Jr. **MF, PS, GS, GH, CO, MM**

PRE-FLITE INDUSTRIES CORP.-SUB.-AVCO MFG. CORP.
16706 S. Garfield Ave., Paramount, Calif. (Tel. NEvada 6-0292)
Purch. Agent: Bruce Green
V. P.-Engrg. & Sales: A. J. Dillon, Jr. **GS, GH, TS**

H. P. PREIS ENGRAVING MACHINE CO.
651 U. S. Highway 22, Hillside 5, N. J. (Tel. MU 6-7736)
Purch.: M. H. Preis
Prod. Mgr.: J. A. Hoffmann **GS**

PREMIER METAL PRODUCTS CO.
337 Manida St., New York 59, N. Y. (Tel. WYandotte 1-6600)
V. P.-Purch.: Mayer Faynberg
Sales Mgr.: E. Kossoy **MF, GS, GH, GE, TR**

PREMIER RESEARCH LABORATORIES, INC.
79-85 7th Ave., New York 11, N. Y. (Tel. ALgonquin 5-0700)
Purch. Agent: W. J. Gutman
Sales Mgr.: M. H. Proelsdorfer **GS, GE, TR**

PREREG MFG. INC.
11 Market St., Stamford, Conn. (Tel. DA 5-1301)
Pres.: John Stambaugh

PRESSED STEEL TANK CO.
1445 S. 66th St., Milwaukee 14, Wisc. (Tel. GReenfield 6-0500)
Purch. Agent: R. E. Holmes
Mgr.-Industrial Prods. Div.: T. V. Montgomery **MF, WN, PS, GS, R&D**

PRESSTITE DIV., AMERICAN-MARIETTA
39th & Chouteau, St. Louis 10, Mo. (Tel. MOhawk 4-6000)
Purch. Agent: G. C. Weston
Mgr., Indsl. Sales: R. H. Knight **MM**

PREWITT AIRCRAFT CO.
Holly & Madison Aves., Clifton Heights, Pa. (Tel. MAdison 6-6500)
Purch. Agent: F. Edwin Davis
Engr.-Sales: David F. Thompson **WN, GE, R&D**

D. W. PRICE CORP.
11161 W. Pico Blvd., Los Angeles 64, Calif. (Tel. GRanite 7-6791)
Dir.-Sales: Russ C. Bremmer **MF, GS, GH**

PRICE ELECTRIC CORP.
E. Church & 2nd Sts., Frederick, Md. (Tel. MOnument 3-5141)
Purch. Agent: Robert H. Haines
Sales Mgr.: Don C. Leith **GS, GE, CO, TR**

PRINTED ELECTRONICS CORP.
7 North Ave., Natick, Mass. (Tel. OLympic 5-0070)
Purch. Agent: Gilman N. Fernald
V. P.-Sales: Richard G. Zens

PRINTRONICS CORP.
3127 El Camino Real, Palo Alto, Calif. (Tel. DA 6-7446)
Business Mgr.: Otto J. Feucht, Jr.
V. P.-Sales: Maury Russ **GS, GE, CO, TS**

J. F. PRITCHARD & CO. OF CALIFORNIA, DIV.-J. F. PRITCHARD & CO.
4625 Roanoke Pkwy., Kansas City, Mo.
Gen. Sales Mgr.: W. R. Roeyer

PROBESCOPE CO. INC.
8 Sagamore Hill Dr., Port Washington, N. Y. (Tel. PO 7-8150) **TS, TR, R&D**

PROCESS & INSTRUMENTS
15 Stone Ave., Brooklyn 33, N. Y. (Tel. GLenmore 2-8380)
Dir.-Purch.: L. Peimer **MF, PS, GS, CO, TS, R&D**

PRODELIN INC.
307 Bergen Ave., Kearny, N. J. (Tel. WYman 1-8600)
Purch.: G. D. Higgins & R. Munley
Purch. Agent: G. H. Higgins **TR**

PRODUCT & INDUSTRIAL ENGRG. CORP.
3806 S. Four Mile Run Dr., Arlington 6, Va. (Tel. JAckson 4-6565)
V. P., Secy. & Treas.: C. J. Ritchie, Jr. **R&D**

PRODUCTION SERVICES CORP., THE
81 Market Sq., Newington 11, Conn. (Tel. MOhawk 6-3363)
Pres.: R. H. Whitney **MF, WN, GS, GH, R&D**

PRODUCTS RESEARCH CO.
3126 Los Feliz Blvd., Los Angeles 39, Calif. (Tel. NOrmandy 5-5951)
Materiel Mgr.: R. Brooks Parker
Sales Mgr., Aircraft, Missile & Allied Electrical Products: W. L. Smith **MM, R&D**

PROJECT FABRICATION CORP.
112-20 14th Ave., College Point 56, N. Y. (Tel. FLushing 9-2122)
Dir.-Purch.: T. R. Scandura
Dir.-Govt. Cust. Relations: Karl E. Heden **GS**

PROJECTS UNLIMITED INC.
1926 E. Siebenthaler Ave., Dayton 14, Ohio (Tel. CR 8-4244)
Pres.: D. S. Wyse
Asst.-Purch.: Bus Mason **GS, CO, TS**

***PROPELLEX CHEMICAL DIV., CHROMALLOY CORP.**
Box 187, Edwardsville, Ill. (Tel. 3400)
Purch. Agent: S. J. Meister
Dir.-Customer Relations: A. M. Zollars **MF, PS, R&D**

*(See Page 81 for Advertisement)

PROSPECT SCREW MACHINE PRODUCTS
Rek Lane, Prospect, Conn. (Tel. Waterbury, Conn., PLaza 9-9460)
Owner: M. A. Pugliese **PS, GE, CO, TR, R&D**

PROTAIR CORP.
4086 Del Rey Ave., Venice, Calif. (Tel. EXmont 1-6241; TExas 0-4807)
V. P.-Purch.: John D. Goldson
Sales Mgr.: H. Lacock

PROTECTIVE COATINGS, INC.
Box 3985, Detroit 27, Mich. (Tel. VE 6-4664)
H. Tom Collord

PROTEX-A-COTE, INC.
161 Delancy St., Newark 5, N. J. (Tel. MItchell 2-8292)
Pres.: Ira Zeitlin
V. P.-Sales: David R. Minkoff **MM**

PRY WELDING & MFG., INC.
Modena, Pa. (Tel. COatesville 2442)
Secy.-Treas.: Gilbert H. Pry **GS, GH**

PRYOR MARKING PRODUCTS
434 S. Wabash Ave., Chicago 5, Ill. (Tel. HA 7-0495)
Gen. Mgr.: D. J. Wilken **GS**

PSYCHOLOGICAL RESEARCH ASSOCIATES, INC.
(West Coast) 15537 Ventura Blvd., Encino, Calif. (Tel. STate 8-2700); (East Coast) 507 18th St., S., Arlington 2, Va. (Tel. OTis 4-6600)
West Coast Repres.: Harold E. Price
East Coast Repres.: James F. Parker **R&D**

PUBLIC INFORMATION PROGRAMS, INC.
6047 Hollywood Blvd., Hollywood 28, Calif. (Tel. HOllywood 2-7377)
Business Mgr.: James H. Flint
Gen. Mgr.: David R. Showalter

PULSE ENGRG. INC.
2657 Spring St., Redwood City, Calif. (Tel. EMerson 8-3331)
Purch. Agent: John Devine **GE, TR**

PURE CARBON CO. INC.
441 Hall Ave., St. Marys, Pa. (Tel. TE 4-1578)
Purch. Agent: H. W. McGeehin
V. P.-Sales & Engrg.: M. C. Burr **MF, PS, GE, TS**

PURITAN COMPRESSED GAS CORP., AVIATION DIV.
2012 Grand Ave., Kansas City 8, Mo. (Tel. HArrison 1-2122)
Aviation Sales Mgr.: F. C. Stebbins **MF, PS, GS, GH**

PUROLATOR PRODUCTS INC.
970 New Brunswick Ave., Rahway, N. J. (Tel. FUlton 8-4000)
Purch. Agent: John T. Gaffney
Gen. Sales Mgr.: R. T. Karr **GS**

PYLE-NATIONAL CO., THE
1334 N. Kostner Ave., Chicago 51, Ill. (Tel. DIckens 2-6300)
Purch. Agent: Carl Mackprang
Asst. Purch. Agents: Charles Skobel & William Sheridan
V. P.-Mktg.: E. M. Nesvig
Mgr.-Connector Div. (Missile Prod. Sales): J. Shearer **GS**

PYLES INDUSTRIES, INC.
20855 Telegraph Rd., Detroit 41, Mich. (Tel. KE 4-3820)
Purch. Agent: H. T. Gerald
V. P.-Sales: C. M. Singleton
Gen. Sales Mgr.: Clifford G. Davis **GS**

PYRAMID ELECTRIC CO.
507 26th St., Union City, N. J. (Tel. UNion 5-1776)
Distributor Sales Mgr.: J. Poff
Purch. Agent: Joseph Poitras, Orange St., Darlington, S. C. (Tel. Darlington 1983)
Indsl. Sales Mgr.: J. Starr (Tel. Darlington 1983)

PYROFILM RESISTOR CO., INC.
U. S. Highway 46, Parsippany, N. J. (Tel. DEerfield 4-8282)
Pres.: John M. Hinkle **GE, TR**

PYROMETER INSTRUMENT CO., INC.
92 Portland Ave., Bergenfield, N. J. (Tel. DUmont 4-5140)
Purch. Agent: J. Crystall
Sales: A. Bollerman **TS**

Q. O. S. CORP.
Bronx Blvd. at 216th St., New York 67, N. Y. (Tel. OLinville 4-3930)
Purch. Agent: Elliott Reiss **GE, CO, TS, TR**

Q. V. S. INC.
20 N. 15th St., E. Orange, N. J. (Tel. ORange 3-3996)
Pres.: M. E. Fogle

Q-CIRCUITS, DIV.-ETCHING CO. OF CALIF.
1208 Howard St., San Francisco 3, Calif. (Tel. MArket 1-7670)
Gen. Mgr.: Sterling Call
Dir.-Sales: Harry Scott **GE, CO, TS, TR**

QUAN-TECH LABS.
236 Mt. Kemble Ave., Box 505, Morristown, N. J. (Tel. JEfferson 8-6350)
Bus. Mgr.: Fred R. Stampfli
Sales Mgr.: Ronald C. Pittenger **R&D**

QUIETROLE CO.
395 St. John St., Spartanburg, S. C. (Tel. 8996)
Gen. Mgr.: Robert O. Monk
Dir.-Sales: Ralph M. Rouse **MM**

QUINCY COMPRESSOR CO.
217 Maine St., Quincy, Ill. (Tel. BA 2-7700)
Purch. Agent: Richard Busch
Sales Mgr.: Loren Gillhouse **GS**

QUTRONIC SEMI CONDUCTOR CORP.
525 Broadway, New York 12, N. Y. (Tel. WAlker 5-3424)
Purch. Agent: E. H. Loganoff
Engr.: M. S. Luck
V. P. & Plant Mgr.: Peter Toong **MF, WN, PS, GE, TS, TR, R&D**

QUTRONIC TRANSFORMER CORP.
525 Broadway, New York, N. Y. (Tel. WOrth 2-3639)
Dir.-Purch.: E. H. Loganoff
Purch. Agent: Angelo Lomascolo
Gen. Mgr.: Louis L. Weintraub **MF, WN, PS, GS, GH, GE, CO, TS, TR, R&D**

R. C. L. MFG. CO.
New Jersey Ave., Riverside, Burlington Co., N. J. (Tel. HObart 1-1003)
Pres.: Charles T. Gamble

R & R ENGRG. CO.
25 Fernwood Ave., New Castle, Del. (Tel. OLympia 6-0531)
Dir.-Purch.: Richard A. Weber
Dir.-Sales: Robert R. Gulick **PS, GS, R&D**

RS ELECTRONICS CORP.
435 Portage Ave., P. O. Box 368, Station A, Palo Alto, Calif. (Tel. DAvenport 3-1130)
Mgr.-Material: Frank C. Kerr **TR, R&D**

RACINE HYDRAULICS & MACHINERY INC.
2000 Albert St., Racine, Wisc. (Tel. MElrose 3-3561)
Purch. Agent: G. Fritchen
Sales Mgr. Cont. Sales: Robert Veraar

RADAR DESIGN CORP.
P. O. Box 38, Pickard Dr., Syracuse 11, N. Y. (Tel. GLenview 4-4418)
Pres.: Glyn Bostick

CODING

Missile Frame	MF
Warhead & Nose Cone	WN
Propulsion System	PS
Ground Support	GS
Ground Handling	GH
Guidance Equipment	GE
Checkout Equipment	CO
Test Equipment	TS
Tracking & Telemetering	TR
Research & Development	R&D
Materials & Metals	MM

RADAR RELAY, INC.
2322 Michigan Ave., Santa Monica, Calif. (Tel. EXbrook 4-2230; TExas 0-1526)
Chief Engr.: Kurt W. Kuhn
Pres. & Gen. Mgr.: Wm. C. Arrasmith GE, CO

RADEX CORP.
2076 Elston Ave., Chicago 14, Ill. (Tel. ARmitage 6-6900)
Purch. Agent: R. R. Cook GE, TS

RADIAL BEARING CORP.
Taylor St., Danbury, Conn. (Tel. Pioneer 8-2577)
Pres.: Leo Papish
Mgr.: M. Krauats MF, GE

RADIAL CUTTER MFG. CORP.
831 Bond St., Elizabeth, N. J. (Tel. ELizabeth 5-9000)
Purch.: Lucien Revol
Sales: George S. Mackrin

RADIANT LAMP CORP.
300 Jelliff Ave., Newark, N. J. (Tel. Bigelow 3-6850)
Purch.: L. Mocerino
Sales Mgr.: Carl L. Krueger GS, GE

RADIAPHONE CO. INC.
600 E. Evergreen St., Monrovia, Calif. (Tel. Elliott 8-2585)
Purch. Agent: H. E. Adams, Jr.
Mgr.-Contracts Dept.: W. H. Schetter GS, CO, TS, TR, R&D

RADIATION DYNAMICS, INC.
1800 Shames Drive, Westbury, L. I., N. Y. (Tel. EDgewood 4-3990)
V. P.: Marshall R. Cleland
Prod. Mgr.: Don C. Reynolds
Engr.: Howard F. Malone R&D

RADIATION, INC.
Melbourne, Fla. (PArkway 3-1511)
Purch. Agent: W. R. Pierpont
Sr. Buyer: J. I. Markham
Electronics Buyer: L. R. Helser
Industrial Buyer: O. L. Campbell
Mechanical Buyer: G. S. Vandegrift
V. P.-Contracts: W. W. Dodgson, Jr. GS, GH, GE, CO, TS, TR, R&D

RADIATION INSTRUMENT DEVELOPMENT LAB., INC.
5737 S. Halsted, Chicago 21, Ill. (Tel. TRiangle 3-2345)
Purch. Agent: J. F. Miller
Sales Mgr.: W. J. Buffer

RADIATION RESEARCH CORP.
1114 First Ave., New York, N. Y. (Tel. TEmpleton 8-2513)
Purch. Agent: Stanley Grand
Sales Mgr.: Maury Ray R&D

RADIATRONICS, INC.
5956 Kester Ave., Van Nuys, Calif. (Tel. State 2-1461; Stanley 3-2736)
Pres.: G. E. Hewitt
V. P.-Sales: E. H. Lockhart GE, CO, TE, TR

RADIO CORES, INC.
9540 Tulley Ave., Oak Lawn, Ill. (Tel. GArden 2-3353)
V. P.-Sales: Arthur J. Mark TR

RADIO CORPORATION OF AMERICA, DEFENSE ELECTRONICS PRODUCTS
Front & Cooper Sts., Camden 2, N. J. (Tel. WOodlawn 3-8000)
V. P.-Mktg.: J. M. Hertzberg GS, GE, CO, TR

RADIO FREQUENCY CO., INC.
Medfield, Mass. (Tel. NOrwood 7-4900)
Pres.: J. G. Manwaring

RADIO INDUSTRIES, INC.
666 Garland Pl., Des Plaines, Ill. (Tel. VAnderbilt 7-4402)
Purch. Agent: Roy Sielisch
V. P.-Sales: Joh T. Driscoll GE, TS, TR

RADIO SPECIALTY MFG. CO.
2023 S. E. 6th Ave., Portland 14, Ore. (Tel. BE 2-8123)
Purch. Agent: Ellis R. Schlosser
Dir.-Sales: Kenneth C. Johnson

RADIONICS, INC.
76 Cambridge St., Burlington, Mass. (Tel. BRowning 2-1233)
Gen. Mgr.: B. S. Cosman R&D

RAE MOTOR CORP.
2009 Kewaunee St., Racine, Wis. (Tel. MElrose 3-7741)
Purch. Agent: J. Costabile
V. P.: E. K. Hansen PS, GS, GH, GE

RAHM INSTRUMENTS, DIV.-AMERICAN MACHINE & METALS, INC.
65 Rushmore St., Westbury, N. Y. (Tel. EDgewood 3-4840)
Purch. Agent: John E. Sullivan
Sales Mgr.: G. Roger Preisick GS, GE, TS, TR

RAILWAY COMMUNICATIONS INC.
9351 E. 59th St., Raytown 33, Mo. (Tel. FLeming 3-2100)
Sales: E. E. Tuel GS, CO, TS

RAM ELECTRONICS INC.
600 Industrial Ave., Paramus, N. J. (Tel. COlfax 1-6900)
Purch. Agent: R. Rubin
V. P.-Sales: M. Mayersohn GS, GE, TS, TR

RAMO-WOOLDRIDGE, DIV.-THOMPSON RAMO WOOLDRIDGE INC.
4800 Ramo-Wooldridge Rd., P. O. Box 5037, Terminal Annex Sta., Denver 17, Colo. (Tel. PYramid 4-4311)
Mgr.-Purch.: F. LaRiviere
Admin. Asst.: Les Ortman
Buyers: M. Z. Williams, M. J. Spencer, M. E. Leonetti, L. J. Michels, Larry Mack
Mgr.-Mktg.: Warren Harmon TS, TR, R&D

RAMO-WOOLDRIDGE DIV., THOMPSON RAMO WOOLDRIDGE INC. OF CALIF.
5500 W. El Segundo Blvd., P. O. Box 90534 Airport Sta., Los Angeles 45, Calif. (Tel. ORegon 8-0511)
Mgr.-Material: Joseph N. Celello
Purch. Agent: Charles G. Locke R&D

DOUGLAS RANDALL INC.
6 Pawcatuck Ave., Westerly, R. I. (Tel. LYric 5-5757)
Purch. Agent: R. Stokes
Material Control: K. Walsh
V. P.-Sales: R. Parnigoni CO, TS

RANDALL ENGRG. CORP.
5933 Bowcroft St., Los Angeles 16, Calif. (Tel. TExas 0-8533)
Dir.-Material: Bob Banks
V. P.-Sales: Rex Oberbeck

RANDALL GRAPHITE BEARINGS, INC.
Box 839, Greenlawn & Lake Sts., Lima, Ohio (Tel. CApitol 3-1075)
Purch. Agent: Frank O. Burnette
Sales Mgr.: Ray Chaney WN, PS, GH, GE

RANSOHOFF CO.
N. 5th St. & Ford Blvd., Hamilton, Ohio (Tel. TW 3-5813)
Purch. Agent: C. V. Noonan
V. P.: R. C. Wigger GS, MM, R&D

RAPID ELECTRIC CO.
2881 Middletown Road, Bronx 61, N. Y. (Tel. TAlmadge 8-2200)
Dir. Purch.: Paul Puccerelli
Dir.-Sales: Robert Tedeschi GS, TS

RAPIDS-STANDARD CO., INC., THE
Rapistan Bldg., Grand Rapids 2, Mich. (Tel. GL 9-0281)
Dir.-Purch.: W. Pipe
Dir.-Sales: H. M. Rasmussen

RATTAN MFG. CO., THE
P. O. Box 1745, 10 Wall St., New Haven, Conn. (Tel. UNiversity 5-2141)
V. P.: G. H. Keith Miller
Sales: George L. Hatheway MF, WN, PS, GS, GH

GEORGE RATTRAY & CO.
116-08 Myrtle Ave., Richmond Hill 18, N. Y. (Tel. VIrginia 6-8250)
Purch. Agent: Robert Mandel
Gen. Mgr.: Harold C. Pasini
Sales Mgr.: Irwin Hansen GE, TR

RAULAND CORP., THE
4245 North Knox Ave., Chicago 41, Ill. (Tel. MUlberry 5-5000)
Dir.-Purch.: J. Loibl
Asst. Purch. Agent: J. Nee
Sales Mgr.: H. Wunderlich
Military Sales: G. M. Snow R&D

RAVENNA METAL PRODUCTS, DIV.-STANDARD SCREW CO.
6518 Ravenna Ave., Seattle 15, Wash. (Tel. LAkeview 5-5555)
Purch. Agent: L. O. Johnson
Gen. Mgr.: I. K. Schlamp
Sales Mgr.: G. E. Earsley MF, PS, GS, GH, CO

RAWAY BEARING CO., INC.
4 Forsyth St., New York 2, N. Y. (Tel. WAlker 5-8150)
Purch.: Rubin Yarmush
Sales: Aharon Baskin GE, TS, TR

RAWSON ELECTRICAL INSTRUMENT CO.
128 Potter St., Cambridge 42, Mass. (Tel. KIrkland 7-4041)
Chief Engr.: M. J. Lush
Office Mgr.: G. C. Henderson R&D

RAY PROOF CORP.
843 Canal St., Stamford, Conn. (Tel. DAvis 5-2201)
Pres.: S. A. Barnett
Gen. Mgr.: G. R. Brownridge
Chief Engr.: R. Aronson MM, R&D

RAYBESTOS-MANHATTAN, INC.
Passaic, N. J. (Tel. GRegory 3-2000) MF, WN, PS, GS, GH, GE

RAYBESTOS-MANHATTAN INC., PA.
Manheim, Pa. (Tel. MOhawk 5-2211)
Purch. Agent: F. R. Bitzer
Adv. Mgr.: S. R. Robinson MM

RAYMOND ENGRG. LAB., INC.
Smith St., Middletown, Conn. (Tel. DIamond 6-7745)
Purch. Agent: Herbert E. Cruickshanks
Subcontr. Rep.: Valmore J. Labbe
Liaison Coord.: Joseph G. Lombardo R&D

RAY-O-VAC CO., DIV.-ELECTRIC STORAGE BATTERY CO.
212 E. Washington Ave., Madison 10, Wisc. (Tel. ALpine 5-7201)
Purch.: O. B. Wynn
V. P.-Mktg.: O. R. Slauson GS, GE

RAYTHEON MFG. CO.
Waltham, Mass. (Tel. TWinbrook 3-5860)
Dir.-Procurement: Paul Wilson
Act. Dir.-Mktg. (Commercial): C. R. Hammond

RAYTHEON MFG. CO., GOVERNMENT EQUIPMENT DIV.
Wayland, Mass. (Tel. TWinbrook 3-5860)
Gen. Purch. Agent: David M. Nason
Sales Mgr.: Clark C. Rodimon GS, GE, TR, R&D

RAYTHEON MFG. CO., MISSILE SYSTEMS HEAD-QUARTERS DIV.
520 Winter St., Waltham, Mass. (Tel. TWinbrook 4-0910)
Gen. Purch. Agent: Bruce T. Brace
Purch. Agent, Andover, Mass.: Frank Samuel
Purch. Agent, Lowell, Mass.: Vincent Sorrentino
Purch. Agent, Bedford, Mass.: Robert H. Pohl
Purch. Agent, Bristol, Tenn.: Theodore Sheldon
Purch. Agent, Oxnard, Calif.: Charles A. Wisenbaker
Purch. Agent, White Sands, N. M.: Harry Leiper
MF, WN, PS, GS, GH, GE, CO, TS, TR, MM, R&D

REACTION MOTORS DIV., THIOKOL CHEMICAL CORP.
Denville, N. J. (Tel. OAkwood 7-7000)
Purch. Agent: Ernest DeRome
Purch. Supvrs.: Laurance Levy & J. Young
Supvr.-Expediting: C. Birckholtz
Purch. Coordinator: J. Daley
Dir.-Sales: R. Frazee MF, PS, GS, GH

RECTICO, INC.
963 Frelinghuysen Ave., Newark, N. J. (Tel. Bigelow 3-8739)
Purch. Agent: F. Fertell GE

RED DEVIL MFG. CO.
1412 N. Ogden Ave., Chicago 10, Ill. (Tel. MIchigan 2-5161)
Pres.: Matthew Kassnel MM

RED LION CABINET CO., REDCO TOOL DIV.
Red Lion, Pa. (Tel. 3-3211)
Purch. Agent: D. W. Royston
Buyers: H. Q. Fishel, K. Worley and R. W. Keller
Sales Mgr.: F. A. Bowles PS, GS, GH

RED POINT CORP.
1907 Riverside Dr., Glendale 1, Calif. (Tel. THornwall 2-4895)
Gen. Mgr.: Ralph P. Craig GS, GH

***REDEL INC.**
220 N. Atchison St., Anaheim, Calif. (Tel. PRospect 4-3624)
Purch. Agent: Edward Carlson
Buyer: Cliff Young
Sales Mgr.: Jay W. DeDapper PS, R&D
*(See Page 46 for Advertisement)

REDMAN ELECTRONICS CORP.
92 Prospect St., Thompsonville, Conn. (Tel. RIverview 5-8024)
Purch. Agent: David Engleman GS, GE, TS, TR

REDMOND CO., INC., SUB.-CONTROLS CO. OF AMERICA
201 Monroe St., Owosso, Mich. (Tel. SAratoga 5-5151)
Dir.-Purch.: Glen Baumhardt
Buyers: R. Kircher, B. Wiegel, R. Muehlberger, & M. Carson
Gen. Sales Mgr.: M. J. Koenig GE

REDSTONE ARSENAL RESEARCH DIV., ROHM & HAAS CO.
Huntsville, Ala. (Tel. JE 6-4411)
Purch.: Alton H. Belcher
Asst. Purch. Agent: Clarence R. Lumpkin PS

REED MFG. CO.
1045 Main St., Waltham 54, Mass. (Tel. TW 4-1464)
Pres.: H. F. Stewart **MM**

REED RESEARCH INC.
1048 Potomac St., N. W., Washington 7, D. C. (Tel. FEderal 3-7000)
Dir.-Purch.: Fred Mozingo
Dir.-Sales: Edward R. Redding
GS, GH, CO, TS, R&D

REEVE ELECTRONICS, INC.
609 W. Lake St., Chicago 6, Ill. (Tel. RAndolph 6-9755)
Purch. Agent: E. F. Steichmann
Sales Engr.: I. R. Wayne **MF, PS, GS**

REEVES INSTRUMENT CORP.
Roosevelt Field, Garden City, N. Y. (Tel. Pioneer 6-8100)
Purch. Mgr.: A. J. Rutherford
V. P.-Mktg.: D. B. Nason **GS, GE, TR, R&D**

REEVES SOUNDCRAFT CORP.
Great Pastures Rd., Danbury, Conn. (Tel. Pioneer 3-7601)
Purch. Agent: Guy Bonham
Sales Mgr., Audio Products: George Bassett
Sales Mgr., Instrumentation Products: William A. Morrison
V. P.-Sales, Film Products: W. H. Deacy
GE, TS, TR

REEVES-HOFFMAN DIV.
145 Cherry St., Carlisle, Pa. (Tel. 2480)
Purch. Agent: Helen Sheaffer
Sales Mgr.: C. M. Rahn **GE, TS, TR**

REFLECTONE CORP., THE
Post Rd. & Myano Lane, Stamford, Conn. (Tel. DAvis 5-2251)
Purch. Agent: Frank G. Hill
Purch. Expediter: Miss SaraLee Swift
Asst. Purch.-Buyer: Merrill Burchard
Sales Mgr.: John B. Thaler **GH, R&D**

REGENT JACK MFG. CO., INC.
11905 Regentview Ave., Downey, Calif. (Tel. SPruce 3-0103)
Purch. Agents: John Keber & Don Norton
V. P.-Sales: O. A. McPeek **GH**

REICH BROTHERS MFG. CO., INC.
1439 Ash St., Terre Haute, Ind. (Tel. CRawford 9638)
Purch. Agent: Clarence C. Loy
V. P.-Sales: George T. Davis **GH**

REICHHOLD CHEMICALS, INC.
RCI Bldg., White Plains, N. Y. (Tel. WHite Plains 8-6200)
V. P.-Purch.: G. C. Sweet
V. P.-Sales: R. T. Urich **MF, WN, MM**

REID METAL PRODUCTS, INC.
2021 N. Lincoln St., Burbank, Calif. (Tel. VIctoria 9-1284)
Supt.-Purch.: Steve Radick
V. P.-Gen. Mgr.: John Bogue
V. P.-Sales: George G. Gaulk
MF, PS, GS, GH, GE

REINHOLD ENGRG. AND PLASTICS CO.
12827 E. Imperial Hwy., Norwalk, Calif. (Tel. OXbow 3-3781)
Purch. Agent: Paul Hendrix
Buyer: Harmon Price
Pres. & Gen. Mgr.: J. P. Gruettner **WN, PS, MM**

RELAY SALES INC.
Box 186 MM, W. Chicago, Ill. (Tel. West Chicago 1100)
V. P.-Sales: A. Scandora
Sales Mgr.: R. O. Welch
Pres: E. E. Rullman, Jr.
GS, GH, GE, CO, TS, TR, R&D

RELAYS, INC.
162 W. 83rd St., New York 24, N. Y. (Tel. TRafalgar 3-4500)
Chief Engr.: S. H. Hartley **GS**

RELIABLE SPRING & WIRE FORMS CO., THE
3167 Fulton Rd., Cleveland 9, O. (Tel. MElrose 1-2800)
Purch. Agent: Gilbert Gnewotta
V. P.-Sales: Ronald F. Pond
MF, WN, PS, TS, TR, MM

RELIANCE MFG. CO. – INDUSTRIAL PRODUCTS & PARACHUTE DIV.
350 Fifth Ave., New York 1, N. Y. (Tel. OX 5-4900)
V. P.: Michael Kagan
Chief Engr.: William Bell

REMINGTON RAND UNIVAC DIV.-SPERRY RAND CORP.
315 Fourth Ave., New York, N. Y. (Tel. SPring 7-8000)
Dir.-Procurement: W. R. Gerhardt
V. P.-Univac Sales: H. V. Widdoes **GE, TR, R&D**

RENBRANDT, INC.
6 Parmelee St., Boston 18, Mass. (Tel. Highlands 5-8910)
Sales: M. Rogers **PS, GS, GH**

EDW. RENNEBURG & SONS CO.
2639 Boston St., Baltimore 24, Md. (Tel. PE 2-1665)
V. P.: Paul E. Kiefer
Dir.-Sales: E. J. Leister **MF, GS**

RENWELL CORP.
1 W. Main St., South Hadley Falls, Mass. (Tel. JEfferson 4-3577)
Dir.-Purch. & Sales: F. T. Renkowicz

REON RESISTOR CORP.
117 Stanley Ave., Yonkers, N. Y. (Tel. YOnkers 5-9850)
Sales Mgr.: J. J. McCann
Purch. Agent: J. Schuldenfrei
GS, GE, TS, TR, R&D

REPUBLIC AVIATION CORP.
Farmingdale, L. I., N. Y. (Tel. CH 9-1100)
Dir.-Materiel: E. I. Little
V. P.: J. Murray **MF, WN, GS, CO, TS, TR, R&D**

REPUBLIC AVIATION CORP., GUIDED MISSILES DIV.
Jericho Turnpike, Mineola, L. I., N. Y. (Tel. Pioneer 2-4013)
Purch. Mgr.: R. Moore
Mil. Contracts: J. Shea
MF, WN, PS, GS, GH, GE, TS, TR

REPUBLIC LENS CO., INC.
31 E. 169th St., New York 52, N. Y. (Tel. CYpress 3-2790)
Purch. Agent: M. Matthewson
Sales Mgr.: Jack Lurie **R&D**

REPUBLIC MFG. CO.
15655 Brookpark Rd., Cleveland 35, O. (Tel. CLearwater 2-1800)
Purch. Agent: R. Riley
V. P.-Sales: L. J. Henderson **MF, PS, GS, TS**

REPUBLIC STEEL CORP.
Republic Bldg., Cleveland 1, O. (Tel. PRospect 1-1400)
Mgr.-Purch. & Raw Materials: W. T. Adams
Asst. Mgr.-Purch.: L. H. Ransom
V. P.-Chg. Sales: Norman W. Foy **MM**

RESDEL CORP.
Cape May Co. Airport, Wildwood, N. J. Mailing Add.: P. O. Box 217, Rio Grande, N. J. (Tel. WIldwood 2-5643)
Office Mgr./Secy.-Treas.: John F. Dieffenderfer
MF, PS, GS, GH, GE, TS

RESDEL ENGRG. CORP.
330 S. Fair Oaks Ave., Pasadena, Calif. (Tel. MUrray 1-7689)
Purch. Agent: J. Demarest
V. P.-Mfg. & Sales: Alfred J. Siegmeth
PS, GS, GH, GE, CO, TS, TR, R&D

RESE ENGRG., INC.
731 Arch St., Philadelphia 6, Pa. (Tel. WAlnut 2-5841)
Chief Purch. Agent: John Newton **GS, CO, TS, TR**

***RESEARCH & ADVANCED DEVELOPMENT DIV., AVCO MFG. CORP.**
20 S. Union St., Lawrence, Mass. (Tel. MUrdock 8-6011)
Mgr.: Glenn W. Inman
Mgr.-Mktg.: R. D. Davis
MF, WN, PS, GS, GH, GE, CO, TS, TR
*(See 3rd Cover for Advertisement)

RESEARCH APPLIANCE CO.
Rt. 8 & Craighead Rd., Allison Park, Pa. (Tel. STerling 2-2262)
Purch. Agent: C. W. Thomas
PS, GS, GH, GE, CO, TS, TR

RESEARCH CONTROLS
7902 E. 11th St., Tulsa, Okla. (Tel. TEmple 5-7163)
Sales: Roy Horton **MF, PS, GS, GH, GE, TS**

RESEARCH DEVELOPMENT MFG. INC.
429 E. Collom St., Philadelphia, Pa. (Tel. GLadstone 5-9700)
Purch. Agent: A. G. Kamm
Asst. Purch. Agent: Frank Wm. Doll
Treas.: L. Kassvan **MF, WN, PS, GS**

RESEARCH, INC.
115 N. Buchanan Ave., Hopkins, Minn. (Tel. Minneapolis WEst 5-2156)
Purch. Agent: G. N. Butzow **CO, TS**

RESEARCH PRODUCTS CORP.
1015 E. Washington Ave., Madison 1, Wisc. (Tel. ALpine 6-0621)
V. P.-Sales: A. W. Brown
V. P.-Purch.: E. B. Schlatter, Jr.
Asst. Purch. Agent: Howard E. Hoveland
PS, GS, R&D

RESEARCH WELDING & ENGRG. CO., INC.
18201 S. Santa Fe, Compton, Calif. (Tel. NE 6-9761)

RESISTOFLEX CORP.
Roseland, N. J. (Tel. CApital 6-7700)
Mgr.-Purch.: R. Atkins
Sr. V. P.-Sales: H. E. Krebs
TS, MF, WN, PS, GS, GH, CO

RESISTORS, INC.
5226 W. 26th St., Chicago 50, Ill. (Tel. OL 2-7555)
Purch. Agent: Marian Kliemer
Sales Mgr.: Myrtle J. Bryans **R&D**

REVERE COPPER & BRASS INC.
230 Park Ave., New York 17, N. Y. (Tel. MU 9-6800)
V. P.-Gen. Sales Mgr.: R. P. Winberg
MF, PS, GS, GH

REVERE CORP. OF AMERICA
North Colony Rd., Wallingford, Conn. (Tel. COlony 9-7701)
Buyers: K. Barse & L. Bradford
Sales Mgrs.: C. W. Silver & G. W. Grace
PS, GS, GE, CO

REVOLVATOR CO.
2000 86th St., North Bergen, N. J. (Tel. UNion 9-1220)
Purch. Agent: J. F. Taylor
Sales: H. S. Germond III

REX CORP., THE, SUB.-AMERICAN ENKA
Hayward Rd., West Acton, Mass. (Tel. COlonial 3-7721)
Buyer: S. M. Coyne **GS, MM**

REYNOLDS METALS CO.
Reynolds Metals Bldg., Richmond, Va. (Tel. AT 2-2311)
V. P.-Purch.: M. W. Henry
Exec. V. P.-Sales: D. P. Reynolds **MM**

REZ-COAT OF CALIFORNIA
690 N. Lemon St., Orange, Calif. (Tel. KEllogg 8-1197)
Prod. Mgr.: F. P. McGowan
Sales: Bruce Brown **MF, WN, PS, MM**

***RHEEM MFG. CO., DEFENSE & TECHNICAL PRODUCTS DIV.**
11711 Woodruff Ave., Downey, Calif. (Tel. TOpaz 1-9711)
Mgr.-Materiel: Robert W. Lassman
Sales Mgr.: John H. Titley
V. P.-Sales: Alexander Black
MF, WN, PS, GS, GH, CO, TR, R&D
*(See 2nd Cover for Advertisement)

RHEEM MFG. CO., ELECTRONICS DIV.
7777 Industry Ave., Rivera, Calif. (Tel. TOpaz 1-9271)
Dir.-Purch.: Roy Smith
Div. Sales Mgr.: Hugh C. Bream
GS, GH, GE, CO, TS, TR

M. H. RHODES, INC.
30 Batholomew Ave., Hartford 6, Conn. (Tel. JAckson 2-4265)
Dir.-Purch.: Miss E. M. Sanderson
V. P.-Sales: E. J. Doyle **GE, R&D**

RICHARDSON SCALE CO.
668 Van Houten Ave., Clifton, N. J. (Tel. GRegory 1-3400)
Purch. Agent: Andrew A. Fisher
Dir.-Sales: Walter M. Young **GH**

RICHARDS-WILCOX MFG. CO.
Aurora, Ill.
Mgr.-Advertising: C. A. Rasey

RIGGS NUCLEONICS CORP.
177 W. Magnolia Blvd., Burbank, Calif. (Tel. VIctoria 9-2481)
Purch. Agent: Philip Salomon
Sales Mgr.: John R. Foster
Pres.: Harvey Riggs **PS, GE, TS**

RIMAK, INC.
10929 Vanowen St., North Hollywood, Calif. (Tel. TRiangle 7-5526)
Purch. Agent: Richard H. Flint (Tel. POpular 1-2377)
Sales Mgr.: William S. Bowers **GS, GE, TR, R&D**

CODING

Missile Frame	MF
Warhead & Nose Cone	WN
Propulsion System	PS
Ground Support	GS
Ground Handling	GH
Guidance Equipment	GE
Checkout Equipment	CO
Test Equipment	TS
Tracking & Telemetering	TR
Research & Development	R&D
Materials & Metals	MM

RINCO, INC.
7962 S. E. Powell Blvd., Portland 6, Ore. (Tel. PRospect 4-3259)
Purch. Agent: Jesse L. Brown
Buyer: Lee Patterson
Sales Mgr.: Franklin M. Brown **CO, TS, TR**

RIPLEY CO., INC.
Factory St., Middletown, Conn. (Tel. DIamond 6-6679)
Purch. Agent: H. I. Thayer
Sales Mgr.: P. J. Riniacdi **GS, GH, TS**

RIVERBANK LABS., DEPT.-ENGRG.
P. O. Box 65, Geneva, Ill. (Tel. GEneva 2207)
Buyer: R. J. Eisenhour
Chief Engr.: B. E. Eisenhour, Jr. **GE, TS, TR**

RIVETT LATHE & GRINDER INC.
P. O. Box 7, Brighton 35, Mass. (Tel. STadium 2-4530)
Purch. Agent: W. C. Woodworth
Sales Mgr.-Hydraulic Div.: J. A. Marsh **MF, PS, GS**

RIXON ELECTRONICS, INC.
2414 Reedie Dr., Silver Spring, Md. (Tel. LOckwood 5-4578)
Purch. Agent: Nevin Price
Dir.-Sales: Dean Perry **GS, GE, TR, R&D**

ROANWELL CORP.
180 Varick St., New York, N. Y. (Tel. YUkon 9-1090)
Dir.-Purch.: H. Schmidt
Asst. Sales Mgr.: J. I. Nevins, Jr. **GS, TR**

C. F. ROARK WELDING & ENGRG. CO., INC.
Brownsburg, Ind. (Tel. ULrick 2-2224)
Purch. Agent: Glenn Seeds
Asst. Purch. Agent: W. S. Schenck
Sales Mgr.: M. E. Mann **PS, MM**

ROBBINS AVIATION, INC.
2350 E. 38th St., Los Angeles 58, Calif. (Tel. LUdlow 9-5221)
Dir.-Material: R. E. Bixler
V. P.-Sales: H. N. Mabery **GS, GH**

ROBBINS & MEYERS, INC., HOIST & CRANE DIV.
Springfield, Ohio

FRED T. ROBERTS & CO.
Danbury Rd., Wilton, Conn. (Tel. POrter 2-7002)
V. P.: R. E. Roberts
Pres.: Fred T. Roberts **MF, GS, GH, MM, R&D**

ROBERTS INDUSTRIES, INC.
Box 71, Branford, Conn. (Tel. HU 8-1671)
Pres.: H. W. Wallace
V. P.: B. V. Harrison, III **MM**

ROBERTS TOLEDO RUBBER CO., THE
4143 Monroe St., Toledo 13, O. (Tel. GReenwood 9-4466)
Pres.: Robert Roberts **MF, PS, GS, GE**

ROBINS INDUSTRIES CORP.
36-27 Prince St., Flushing 54, N. Y. (Tel. HIckory 5-7200)
Purch. Agent: E. DiCarlo **TR**

ROBINSON TECHNICAL PRODUCTS, INC.
Teterboro Air Terminal, Teterboro, N. J. (Tel. ATlas 8-2500)
Sr. Buyer: Harold Adler
Buyers: Merle Darragh, James Eames, Charles Preuss
V. P.-Proj. Dev.: H. Erich Nietsch **GH, GE, TR, R&D**

ROBOT INDUSTRIES INC.
7041 Orchard St., Dearborn, Mich. (Tel. TIffany 6-2623)
Purch. Agent: K. Krake **MF, PS, GS, GH, GE, TR**

ROCHESTER MFG. CO. INC.
113 Rockwood St., Rochester 10, N. Y. (Tel. BRowning 1-2020)
Purch. Agent: L. A. Mumford
Sales Mgr.: David McEwen **MF, GS, GH, CO, R&D**

ROCKBESTOS PRODUCTS CORP.
Nicoll & Canner Sts., New Haven 4, Conn. (Tel. STate 7-1141)
Dir.-Purch.: C. A. Berlepsch
Purch. Agent: R. B. Miniter
Buyer: C. F. Connerton
V. P.-Sales: H. O. Anderson **PS, GS, GH, TS, TR, MM**

ROCKETDYNE DIV., NORTH AMERICAN AVIATION, INC.
6633 Canoga Ave., Canoga Park, Calif. (Tel. DIamond 7-5651)
Gen. Purch. Agent: M. J. Dubuc
Purch. Agents: V. L. Butterbaugh, S. C. Schultz, G. J. Cheek
Dir.-Plans & Programs: E. F. Brown **PS, R&D**

ROCKWELL-STANDARD CORP.
843 Fourth Ave., Coraopolis, Pa. (Tel. SPalding 1-1800)
V. P. & Dir.-Purch.: V. E. Gumbleton
Exec. V. P.-Sales, Mktg.: C. B. Black **GS, GH**

ROCKWELL-STANDARD CORP.
Ashtabula, Ohio
Gen. Sales Mgr.: O. M. Heath **GS**

RODNEY METALS INC.
1357 Rodney French Blvd., New Bedford, Mass. (Tel. WY 6-5691)
V. P.: C. W. Smith
Purch. Agent: L. A. Dobson **MF, PS, GS, GH**

JOHN A. ROEBLING'S SONS CORP.
640 S. Broad St., Trenton, N. J. (Tel. EXport 6-6511)
Dir.-Purch.: R. K. Spofford
Asst. Dir.-Purch.: K. S. Dickel
Buyers: J. G. Hottinger, C. G. Bennighoff, J. R. Nemeth, W. P. Strohauer & P. S. Toth
V. P.-Sales: E. George Hartmann **MF, PS, GS, GH, MM**

ROGERS CORP.
Rogers, Conn. (Tel. PRescott 4-9605)
Purch. Agent: Austin R. Schillinger
Dir.-Mktg.: N. L. Greenman **MF, WN, PS, GE, TR, MM**

ROHM & HAAS CO. – REDSTONE ARSENAL RESEARCH DIV.
Huntsville, Ala. (Tel. JEfferson 6-4411)
Supvr.-Purch.: A. H. Belcher
Asst. Supvr.-Purch.: C. R. Lumpkin
Gen. Mgr.: A. R. Deschere **R&D**

ROHR AIRCRAFT CORP.
Foot of H St., Chula Vista, Calif. (Tel. GArfield 2-7111)
Material Mgr.: C. R. Campbell
Mgr.-Purch.: R. J. Rucci
Purch. Agents: J. W. O'Reilly, E. T. Elvin
Contracts Mgr.: A. R. Campbell **MF, PS, R&D**

ROLL FORMED PRODUCTS CO.
3760 Oakwood Ave., Youngstown, O. (Tel. SWeetbriar 9-3223)
Purch. Agent: S. Kakish
Sales Mgr.: L. C. Colleran **MF, WN, PS, GS, TS, TR**

ROLLAN ELECTRIC CO.
8233 S. Princeton Ave., Chicago 20, Ill. (Tel. RAdcliffe 3-4000)
Purch. Agent: William Pierucci
Sales Mgr.: C. E. Schneider

ROLLE MFG. CO.
3rd & Cannon Ave., Lansdale, Pa. (Tel. UL 5-1171)
Purch. Agent: H. Wardle
Sales Mgr.: W. F. Trakat **MF, GS**

ROLLER BEARING CO. OF AMERICA
Sullivan Way, W. Trenton, N. J. (Tel. EX 3-7191)
Purch. Agent: R. J. McCoy
Sales Mgr.: Robert R. Voorhees **PS, GH, GE**

ROLLWAY BEARING CO., INC.
541 Seymour St., Syracuse 4, N. Y. (Tel. GR 5-2121)
Purch. Agent: William R. Bowes
Gen. Sales Mgr.: Alfons Alven **GE**

ROLOCK INC.
1350 Kings Hwy., Fairfield, Conn. (Tel. FO 7-8611)
Purch. Agent: Robert L. Larkin
V. P.-Sales: Robert Platt **MM**

ROME CABLE CORP., SUB.-ALUMINUM CO. OF AMERICA
421 Ridge St., Rome, N. Y. (Tel. Rome 3000)
Purch. Agent: S. O. Williams
Asst. Purch. Agent: J. H. McCann
V. P. & Dir.-Mktg.: G. E. Rolston **TR, MM**

ROME-TURNEY RADIATOR CO., THE
109 Canal St., Rome, N. Y. (Tel. 2200 and 2201) **MM**

RONAN & KUNZL, INC.
502 S. Kalamazoo Ave., Marshall, Mich. (Tel. STory 1-2861)
Purch. Agent: Jack Lawler
Cryogenic Sales Engr.: Herbert A. Eichstaedt **MF, PS, GS, GH**

RONAN & KUNZL, INC., CRYOGENIC DIV.
Marshall, Mich. (Tel. STory 1-2861)
Purch. Agent: Jack Lawler
Sales: H. E. Eischstaedt **WN, PS, GS**

RONSON HYDRAULIC UNITS CORP.
1313 Lincoln Ave., Pasadena, Calif. (Tel. RYan 1-0221)
Purch. Agent: M. E. Boltz
Dir.-Sales: R. K. Boltz **GS, GH, GE**

ROOVERS-LOTSCH CORP.
3611 14th Ave., Brooklyn 18, N. Y. (Tel. GEdney 5-0004)
Chief Engr. & Gen. Mgr.: Charles F. Lotsch
Plant Supt.: Paul D. Payne **MF, PS, GS**

ROSAN, INC.
2901 W. Coast Hwy., Newport Beach, Calif. (Tel. LIberty 8-5533)
Purch. Agent: Robert A. Carr
Mfg. Mgr.: L. F. Barth
Gen. Sales Mgr.: E. G. Miller **MF, WN, PS**

ROSE MFG. CO.
2700 W. Barberry Place, Denver 4, Colo. (Tel. AC 2-7847)
V. P.: J. E. Sharp **GS, GH**

ROSEMOUNT ENGRG. CO.
4900 W. 78th St., Minneapolis 24, Minn. (Tel. WAlnut 7-7711)
Secy.-Treas.: Vernon H. Heath
Buyer: Harry Boquist
Sales Mgr.: B. L. Sadler **TS, TR, R&D**

CHARLES ROSS & SON CO., INC.
148-156 Classon Ave., Brooklyn 5, N. Y. (Tel. MAin 2-8400)
Purch. Agent: Richard M. Ross
Asst. to Pres.: Charles K. Ross **PS, R&D**

MILTON ROSS METALS CO., THE
237 Jacksonville Rd., Hatboro, Pa. (Tel. OSborne 2-0550)
V. P.: E. D. Ross
Pres.: M. I. Ross **MF, WN, PS, GS, GH, GE, CO, TS, TR**

ROTARY LIFT CO., DIV.-DOVER CORP.
1054 Kansas St., Memphis 2, Tenn. (Tel. WHitehall 8-8561)
V. P.-Purch.: W. E. Rier
Sales Mgr.-Elevator Div.: H. G. Sanders
Sales Mgr.-Indsl. Div.: H. T. Hamm

ROTEX PUNCH CO., INC.
2350 Alvarado St., San Leandro, Calif. (Tel. LOckhaven 9-8180)
Prod. Mgr.: Mark Hamlin
Sales Mgr.: John B. Sweeney **GS**

ROTO-FINISH CO.
3700 Milham Rd., Kalamazoo, Mich. (Tel. FIreside 3-5578)
V. P. & Secy.: John W. Sercaas
Sales Mgr.: Wm. J. Walther

ROTOTEST LABS., INC.
2803 Los Flores Blvd., Lynwood, Calif. (Tel. NEvada 6-9238)
Purch. Agent: Mrs. Tim Taylor
V. P.-Sales: J. R. Duncan **TS**

ROTRON MFG. CO.
Schoonmaker Lane, Woodstock, N. Y. (Tel. ORiole 9-2401)
Purch. Agent: A. J. Gibson, Jr.
Dir.-Sales: Paul M. Beard
Asst. Sales Mgr.: W. W. Blelock, Jr. **WN, GS, GE, CO, TS, TR**

ROWE INDUSTRIES
1702 Wayne St., Toledo 9, Ohio (Tel. EVergreen 2-5666)
Asst. Purch. Agent: Howard B. Lang
Gen. Mgr.: Harold M. Klopping **GS**

MILTON ROY CO.
1300 E. Mermaid Lane, Philadelphia 18, Pa. (Tel. CHestnut Hill 7-8000)
Purch. Agent: E. W. Brook
Sales Mgr.: John Procopi **PS, GS, GH, CO, TS**

ROYAL ELECTRIC CORP.
95 Grand Ave., Pawtucket, R. I. (Tel. PAwtucket 2-8600)
Purch. Agent: H. Spanglet
Asst. Purch. Agent: W. Slack
V. P.-Sales Operations: S. B. Alperin **MF, WN, PS, GS, GH, CO, TS, TR**

ROYAL INDUSTRIES, INC.
1035 Westminster Ave., Alhambra, Calif. (Tel. ATlantic 9-5101)
Purch. Agent: Victor Kail
V. P.-Sales: R. T. Lowrie **MF, GS, GH, CO, TS, TR, R&D**

ROYCO INSTRUMENTS, INC.
123 Santa Maria Ave., Portola Valley, Calif. (Tel. ULmar 1-7263)
Dir.-Purch.: F. Roy Gustavson
Sales Mgr.: Emil Wachtel **PS, CO, TS**

ROYLYN INC.
620 Paula Ave., Glendale 1, Calif. (Tel. CHapman 5-8521)
Purch. Agent: Jack Schroeder
Asst. Purch. Agent: Harold Conley
Buyer: Alice Coty
V. P.-Sales: Donald E. Butler **GS, GH, TS, R&D**

RUBATEX DIV., GREAT AMERICAN INDUSTRIES INC.
Bedford, Va. (Tel. JUstice 6-2611)
Purch. Agent: Mary B. Dean
Sales Mgr.: W. C. Walters — MF, PS, GE, TR

RUBBER & ASBESTOS CORP.
225 Belleville Ave., Bloomfield, N. J. (Tel. PIlgrim 8-1300)
Purch. Agent: Mrs. A. Golden
Gen. Sales Mgr.: Harold Greene — MF, WN, PS, GE

RUBBER TECK INC.
19115 S. Hamilton St., Gardena, Calif. (Tel. FAculty 11669)
Purch. Agent: E. D. Rogers
Dir.-Sales: Nat Feldman — MM

RUBBERCRAFT CORP. OF CALIFORNIA
1800 W. 220th St., Torrance, Calif. (Tel. FAirfax 8-5402)
V. P.-Sales: Robert N. Merralls
MF, WN, PS, GS, GH, GE, CO, TS, TR

RUCKER CO., THE
4700 San Pablo Ave., Oakland 8, Calif. (Tel. OLympic 3-5221)
V. P.-Gen. Mgr.: Clarence J. Woodard
GS, GH, CO, TS, R&D

ARTHUR C. RUGE ASSOCIATES, INC.
Hudson, N. H. (Tel. TUxedo 2-5195)
Pres.: Paul W. Koch
Chief Engr.: Warren E. Jackson
Prod. Mgr.: Hugh R. Rainge
Dir.-Sales: W. E. Jackson & H. R. Rainge — TR

RUSSELL MFG. CO., THE
Middletown, Conn. (Tel. DIamond 6-7721)
Purch. Agent: Henry Fischer, Jr.
Dir.-Automotive Research & Mfg.: H. C. Morton
Dir.-Research, Textile Div.: T. I. Read
V. P.-Sales: L. S. Sullivan

RUSSELL REINFORCED PLASTICS CORP.
521 W. Hoffman Ave., Lindenhurst, N. Y. (Tel. LIndenhurst 5-1700)
Gen. Mgr.: Warren R. Amendola
Exec. V. P.: Ernest C. Schultz

RUTHERFORD ELECTRONICS CO.
8944 Lindblade St., Culver City, Calif. (Tel. TExas 0-7393)
Purch. Agent: S. Cooper
Sales: N. T. Holzer — CO, TS

RUTHMAN MACHINERY CO., THE
1813 Reading Rd., Cincinnati 2, O. (Tel. MA 1-5462)
V. P.-Purch.: A. H. Ruthman

RYAN AERONAUTICAL CO.
2701 Harbor Dr., San Diego 12, Calif. (Tel. CYpress 6-6681)
Dir.-Materiel: M. K. Smith
Gen. Supvr.-Purch.: J. H. Stromberg
Gen. Supvr.-Outside Prod.: R. W. Carr
MF, WN, PS, GE, TS, MM, R&D

RYAN INDUSTRIES, INC.
888 E. 70th St., Cleveland 3, Ohio (Tel. UT 1-6878)
Purch. Agent: C. P. Breitmayer
V. P.-Engrg. & Sales: R. M. Haas

JOSEPH T. RYERSON & SON, INC.
16th & Rockwell Sts., Chicago 8, Ill. (Tel. ROckwell 2-2121)
V. P.-Proc.: J. M. Mead
V. P.-Sales: T. Z. Hayward — MM

RYTRON CO., INC.
7303 Lankershim Blvd., N. Hollywood, Calif. (Tel. POplar 5-0756)
Purch. Agent: Jack Kennedy
Dir.-Engrg.: Robert E. Schlegel
Chief Engr., Filters: Carl Nelson
Chief Engr., Mag. Amplifier: Ralph Holanov
Sales Mgr.: Maurice Foster — PS, GE, CO, TS, TR

SKF INDUSTRIES, INC.
Front St. & Erie Ave., Philadelphia 32, Pa. (Tel. GArfield 6-6400)
Gen. Purch. Agent: F. E. Whyte
Purch. Agent: J. R. Bremer
Supvrs.: W. R. Sine
Buyers: B. F. Maurer, J. A. McCarron, W. R. Conlogue, & J. A. Choman
Expediter.: D. P. Haggerty — PS, GE

S-P MFG. CORP., THE
30201 Aurora Rd., Solon, Ohio (Tel. CHurchill 8-6141)
Purch. Agent: A. W. Fisher
Sales Mgr.: R. E. Sutherland — MM

SAFETY ELECTRICAL EQUIPMENT CORP.
1187 Dixwell Ave., New Haven 14, Conn. (Tel. UN 5-3171)
Purch. Agent: Joseph Prestianni
Indsl. Sales Mgr.: Charles Pierce
V. P.-Sales: J. J. Kennedy — GS, TS

SAFEWAY HEAT ELEMENTS, INC.
680 Newfield St., Middletown, Conn. (Tel. DIamond 6-6601)
Secy.-Asst. Treas.: Joseph F. O'Rourke
Dir.-Sales: T. A. Dissel — PS, GS, R&D

SAGE ELECTRONICS CORP.
Country Club Road, East Rochester, N. Y. (Tel. LU 6-8010)
Treas.: A. B. Mills
Pres.: F. D. Sage — GE, TR

SAGE EQUIPMENT CO. INC.
30 Essex St., Buffalo, N. Y. (Tel. ELmwood 5242)
Purch.: A. Sperduti
Dir.-Sales: John Haynes — GH

SAGE LABS., INC.
159 Linden St., Wellesley 81, Mass. (Tel. CEdar 5-4760)
Admin. Supvr.: William S. Patsos
GS, GH, GE, CO, TS, TR, R&D

SAGE-CRAFT, INC.
Norwich, N. Y. (Tel. 4-6118)
Pres.: Earle R. Sage — GS, GE, R&D

SAGINAW BEARING CO.
967 S. Water St., Saginaw, Mich. (Tel. PLeasant 2-3169)
Dir.-Purch.: Robert L. Pieschke
Dir.-Sales: John Truer — MM

ST. JOHN X-RAY LABORATORY
Califon, N. J. (Tel. Califon 49)
Pres.: Herbert R. Isenburger

ST. MARYS CARBON CO.
W. State St., St. Marys, Pa. (Tel. TErminal 4-2844)
Dir.-Purch.: C. J. Ehrensberger
V. P.-Sales: L. W. Eberl — MM

ST. REGIS PAPER CO., PANELYTE DIV.
Enterprise Ave., Trenton, N. J. (Tel. EXport 2-2181)
Purch. Agent: Frank P. Yaccarino, Sr.
Indsl. Sales Mgr.: John M. Zeier

SAN FERNANDO ELECTRIC MFG. CO.
1509 1st St., San Fernando, Calif. (Tel. EMpire 1-8681)
Purch. Agent: Richard A. Griffis
Gen. Sales Mgr.: Lyle R. Smith

SANBORN CO.
175 Wyman St., Waltham 54, Mass. (Tel. TW 4-6300)
Purch. Dir.: E. A. Craddock
V. P.-Sales: A. E. Lonnberg — TS

SANCOR CORP.
1661 Franklin Ave., El Segundo, Calif. (Tel. ORegon 8-5069)
Purch. Agent: A. H. Knight
V. P.-Sales: L. H. Sanderfer — GS, GH

SANDBERG-SERRELL CORP.
2550 E. Foothill Blvd., Pasadena, Calif. (Tel. SYcamore 6-0281)
V. P.-Sales: Peter V. H. Serrell — GH, TS, R&D

SANDERS ASSOCIATES, INC.
95 Canal St., Nashua, N. H. (Tel. TUxedo 3-3321)
Purch. Agent: Chandler Goldswaite
Sales Mgr.: W. B. Wilkens — GS, GE, TR, MM, R&D

SANFORD PLASTICS CORP.
New Brunswick Ave. & Charles St., Metawen, N. J. (Tel. LOwell 6-1923)
V. P.-Purch.: John B. Anderson
Pres.: Warren L. Schnur — MM

SANGAMO ELECTRIC CO.
11th & Converse, Springfield, Ill. (Tel. 4-6411)
Purch. Agent-Springfield, Ill.: H. C. Chambers
Purch. Agent-Pickens Div., Pickens, S. C.: R. W. Kreppert (Tel. 6311)
Purch. Agent-Ordill Div., Marion, Ill.: Rex McCluskey (Tel. 231)
V. P.-Sales: R. C. Lanphier, Jr. — MM

SANTA ANITA ENGRG. CO.
2451 E. Colorado St., Pasadena 8, Calif. (Tel. RYan 1-7441)
Prod. Mgr.: Robert Blyth
Purch. Agent: Kent Felker
V. P.-Sales: L. D. Bonham — MF

SANTA BARBARA RESEARCH CENTER
Bldg. 316, Santa Barbara Airport, Goleta, Calif. (Tel. WOodland 7-2331)
Purch. Agent: William J. Cartledge
Asst. Chief-Admin.: D. T. Shiffman — GE, R&D

SARGEANT & WILBUR HEAT TREATING CORP.
170 York Ave., Pawtucket, R. I. (Tel. PA 3-5900)
Pres.: Irvin M. Sargeant
Asst. to Pres.: Joseph T. McDevitt — MM, R&D

SARGENT ENGRG. CORP.
2533 E. 56th St., Huntington Park, Calif. (Tel. LUdlow 3-4161)
Purch. Agent: C. A. Brock
Dir.-Sales, Aircraft Div.: S. B. Sargent, Sr.
GS, GH, GE, CO, R&D

SARKES TARZIAN, INC., RECTIFIER DIV.
415 N. College Ave., Bloomington, Ind. (Tel. EDison 2-1435)
Purch. Agent: Max Robertson — GS, GE, TS, TR

SATELLITE-KENNEDY, INC. OF CALIFORNIA
P. O. Box 1711, Monterey, Calif. (Tel. FRontier 3-2461)
Controller: M. E. Mower
Engrg. Mgr.: C. M. Brown — R&D

SAUEREISEN CEMENTS CO.
1045 N. Canal St., Pittsburgh 15, Pa. (Tel. STerling 1-2323)
Purch. Agent: G. W. Read
V. P.-Sales: P. F. Sauereisen — MM

SAVAGE-ROWE PLATING CO., INC.
2152 Portage St., Kalamazoo, Mich. (Tel. FIreside 5-0532)
Pres.: Frank K. Savage
V. P.-Sales: A. K. Graham — MM

SAYLOR ELECTRIC PRODUCTS CORP.
277 Pierce, Birmingham, Mich. (Tel. JOrden 6-7122)
Purch.: W. R. Saylor
Sales: B. F. Stiles — MF, PS

SCAICO CONTROLS, INC.
P. O. Box 41, Cooper St., Delanco, N. J. (Tel. HObart 1-4717)
Secy.: J. S. Cooper — GS, TS, R&D

SCAIFE CO., DIV.-WILSON BROTHERS
26 Ann St., Oakmont, Pittsburgh, Pa. (Tel. EMerson 2-2100)
Purch. Agent: J. M. McClure
Mgr.-Defense Sales: R. S. Townend — MF, GH, R&D

SCALA RADIO CO.
2814 19th St., San Francisco 10, Calif. (Tel. VA 6-2898)
Purch. Agent: E. M. O'Neill
Owner: Bruno Zucconi

SCAM INSTRUMENT CORP., THE
1811 Irving Park Rd., Chicago 13, Ill. (Tel. GRaceland 7-7850)
Purch. Agent: Wayne Miller
Sales Mgr.: Roscoe Garrett — GS, CO, TS

SCHAEVITZ ENGRG.
U. S. Rt. 130 & Schaevitz Blvd., Pennsauken, N. J. (Tel. NOrmandy 2-8000)
Purch. Agent: Helen Tarr
Coordinator-Sales: Russell C. Spera — GE, CO, R&D

SCHAFFER AIR INDUSTRIES, INC.
290 N. Henry St., Brooklyn 22, N. Y. (Tel. EVergreen 3-5300)
Purch.: Bernard Schaffer — GS, GH, CO, TS

RAY A. SCHARER & CO.
17411 E. Warren, Detroit 2, Mich. (Tel. TUxedo 2-7172)
Purch.: M. A. Davis
Sales: R. A. Scharer

SCHAUER MFG. CORP.
4500 Alpine Ave., Cincinnati 42, O. (Tel. SYcamore 1-3030)
Purch. Agent: David T. Face
V. P.-Sales: S. E. Wright — GS, GH, GE, TR

SCHELLENS-TRUE CORP.
Pondmeadow Rd., Ivoryton, Conn. (Tel. Essex-South 7-8248)
V. P.: E. Peter Schellens
Pres.: E. L. Schellens — PS

SCHLEGEL MFG. CO.
1555 Jefferson Rd., P. O. Box 197, Rochester 1, N. Y. (Tel. HIllside 5-5110)
Dir.-Purch.: James Doris
Asst. Purch. Agent: Donald Nesbitt
Sales Mgr.: William K. Sittig — MF, MM

D. A. SCHULTZ CO.
801 S. E. 8th St., Minneapolis 14, Minn. (Tel. FEderal 9-7701)

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Missile Frame	MF
Warhead & Nose Cone	WN
Propulsion System	PS
Ground Support	GS
Ground Handling	GH
Guidance Equipment	GE
Checkout Equipment	CO
Test Equipment	TS
Tracking & Telemetering	TR
Research & Development	R&D
Materials & Metals	MM

Purch. Agent: Marge Knight
Sales Engr.: Burton Dahlsten **MF, TS**

SCHUTTE & KOERTING CO.
Cornwells Hts., Bucks Co., Pa. (Tel. MErcury 9-0900)
Purch. Agent: C. Alsentzer
V. P.-Sales: F. L. Seibold **GH**

SCHWEBER ELECTRONICS
60 Herricks Rd., Mineola, L. I., N. Y. (Tel. Pioneer 6-6520)
Buyer: George P. Heller
Sales: Jack Laskin **GE**

PETER J. SCHWEITZER DIV.
261 Madison Ave., New York 16, N. Y. (Tel. MUrray Hill 2-8400)
Dir.-Purch.: J. B. Tropp
Sales Mgr.: Duke Kahl (Lee, Mass.) **MM**

SCIAKY BROTHERS, INC.
4915 W. 67th St., Chicago 38, Ill. (Tel POrtsmouth 7-5600)
Purch. Agent: John Bilik
V. P.-Sales: Maurice Sciaky **MF, PS, GH, MM**

SCIENTIFIC ENGRG. CO.
653 11th Ave., New York 36, N. Y. (Tel. COlumbus 5-7286)
Purch. Agent: Gilbert Goodgion
Owner: F. Feinfrank **TS, R&D**

SCIENTIFIC ENGRG. LABS., INC.
1510 Sixth St., Berkeley 10, Calif. (Tel. LA 6-2772)
Purch. Agent: Mrs. Alberta Proteau
S. W. Mgr.: J. R. Hafstrom, La Jolla, Calif. (Tel. GL 4-1185)
Pres.: G. C. McFarland **GS, TS, R&D**

SCIENTIFIC INSTRUMENT CO.
1041 2nd Ave., Detroit 26, Mich. (Tel. WOodward 2-9060)
Pres.: Harold Warr
V. P.-Sales: John E. Peterson **GS, GH, CO, TS, R&D**

SCIENTIFIC RADIO PRODUCTS, INC.
2303 W. 8th St., Loveland, Colo. (Tel. NOrmandy 7-2261)
Treas. & Purch. Agent: G. E. Ulfers
V. P. & Sales Mgr.: G. C. Follmer

SCIENTIFIC-ATLANTA, INC.
2162 Piedmont Rd., N. E., Atlanta 9, Ga. (Tel. TRinity 5-7291)
Buyer: George Ray
Chief Mechan. Engr.: S. F. Hutchins
Chief Elect. Engr.: C. H. Currie
Sales Mgr.: William H. Bradley **TS, R&D**

SCIOTO SIGN CO.
370 Vine St., Kenton, O. (Tel. 2-1146)
Pres.: Collins M. Shaw
Purch. Agent: K. Buck
Sales Mgr.: B. Deardorff

SCOPES CO., INC., THE
P. O. Box 56, Monsey, N. Y. (Tel. ELmwood 6-6339)
Dir.-Purch.: M. Silver (Diamond 3-3070)
Pres.: M. Rickard **TS**

H. H. SCOTT, INC.
111 Powder Mill Rd., Maynard, Mass. (Tel. TWin Oaks 7-8801)
Sales Mgr.-Instr. Div.: E. G. Dyett, Jr. **CO, TS, TR**

SCOTT AVIATION CORP.
Erie St., Lancaster, N. Y. (Tel. REgent 5100)
Purch. Agent: K. J. Albrecht
V. P.-Sales & Finance: R. D. Pollock **GS, GH, R&D**

SCOVILL MFG. CO.
99 Mill St., Waterbury, Conn. (Tel. PLaza 4-1171)
V. P. & Gen. Mgr.: P. E. Fenton
Sales: R. Woodacre **MM**

SCREW CORP.
157 N. Rivergrade Rd., City of Industry, Calif. (Tel. EDgewood 8-5501)
Treas.: H. Wechsler
Secy.: K. R. Brooks

SCREW PRODUCTS CORP. OF AMERICA
5211 Southern Ave., South Gate, Calif. (Tel. LOrain 6-5141)
Purch. Agent: Albert Jenkins
Sales Mgr.: Walter Cleary **MF, WN, PS**

SEALECTRIC SWITCH & RELAY CORP.
6025 N. Keystone Ave., Chicago 46, Ill. (Tel. KEystone 9-7502)
Purch. Agent: J. C. Miller
Sales Mgr.: E. M. Paradise **PS, GS, GH, GE, TS, TR**

SEALMASTER BEARING DIV., STEPHENS-ADAMSON MFG. CO.
Ridgeway Ave., Aurora, Ill. (Tel. AUrora 2-4311)
Purch. Agent: K. L. Johnson
V. P.: C. B. Hurd, Bearing Div.
Sales Mgr.: J. W. Todd, Engrg. Div. **GH, GE**

SEALOL CORP.
460 Post Rd., Providence 5, R. I. (Tel. STuart 1-4700)
Purch. Agent: Nathaniel Burnham
Pres.: Clement W. Williamson **PS, GS, GH, R&D**

SEAL-PEEL, INC.
775 Stephenson Hwy., Royal Oak 3, Mich. (Tel. JUniper 8-1055)
V. P. & Purch. Agent: Frank Evans
Pres.: Arthur Aaron

SEAMLESS PRODUCTS CO., INC.
126 11th Ave., New York 11, N. Y. (Tel. ALgonquin 5-2152) **MF, WN, PS, GS, GH, GE**

SECO MFG. CO.
5015 Penn Ave., S., Minneapolis 19, Minn. (Tel. WAlnut 6-4545)
Pres. & Chief Engr.: E. A. Bramsen
Sales Mgr.: L. P. Henaman **TS**

SECON METALS CORP.
7 Intervale St., White Plains, N. Y. (Tel. WHiteplains 9-4757)
Pres.: Eugene Cohn **MF, PS, GS, TR**

SEEBURG CORP., THE
1500-38 N. Dayton St., Chicago 22, Ill. (Tel. MIchigan 2-0800)
Purch. Agents: Walter Metcalf & Ritchie Tredwell
Buyers: Walter Korzun, Daniel Dolce & George Keller
Contract Adm.: W. Cummins **GS, GE, TR**

SEELEY ELECTRONICS
1060 S. La Brea Ave., Los Angeles 19, Calif. (Tel. WEbster 3-1183)
Warren M. Seeley **TR**

EDWARD SEGAL
132 Lafayette St., New York 13, N. Y. (Tel. WOrth 6-3935)
Dir.-Purch.: I. Pollevoy
Sales Mgr.: E. Segal **MM**

SEISCOR MFG. CORP.
P. O. Box 1590, 6200 E. 41st St., Tulsa, Okla. (Tel. RIverside 3-1381)
Purch. Agent: M. G. Steil
Sales Mgr.: Clyde V. Hussey **GS, GE, CO, TS, R&D**

SELAS CORP. OF AMERICA
Dresher, Pa. (Tel. MItchell 6-6600)
Pres.: F. O. Hess
Purch. Agent: J. E. Kerns **R&D**

SEL-REX CORP.
75 River Rd., Nutley 10, N. J. (Tel. NUtley 2-5200)
Branch Offices: 5875 N. Lincoln, Chicago, Ill. (Tel. Long Beach '-3183); 1168 Santa Monica Blvd., Los Angeles 25, Calif. (Tel. GRanite 7-4206)
Purch. Agent: J. R. Ezzo
V. P.-Sales: S. S. Wilson **MM, R&D**

SEQUOIA WIRE & CABLE CO., DIV.-MANDREL INDUSTRIES, INC.
2950 N. Ontario St., Burbank, Calif. (Tel. VIctoria 9-2341)
Purch. Agent: John W. De Brenan
Gen. Sales Mgr.: Edward J. Stephens **MF, PS, GS, GE, CO, TS, TR, R&D**

SEQUOIA WIRE CO.
2201 Bay Rd., Redwood City, Calif. (Tel. EMerson 9-0331)
Buyer: Ruth Pasca
Gen. Sales Mgr.: M. C. Jafferies **MF, PS, GS, GH, CO, TS, TR**

SERVO CORP. OF AMERICA
2020 Jericho Turnpike, New Hyde Park, L. I., N. Y. (Tel. Fieldstone 3-4100)
Purch. Agent: R. Montag
Mktg. Mgr.: A. Freed
Govt. Sales Mgr.: S. S. Levine
Systems Sales Mgr.: Jules Cardon **GS, GE, CO, TS, TR**

SERVOMECHANISMS, INC.
12500 Aviation Blvd., Hawthorne, Calif. (Tel. ORegon 8-7841)
Purch. Agent: H. Muller
Sr. Buyer: E. Mason
Buying Supvr.: R. Womack
Buyers: L. Meyer, T. Butler & S. Jordan
Dir.-Customer Liaison: G. S. Robinson **GS, GH, GE, CO, TS, R&D**

SERVOMECHANISMS, INC., MECHATROL DIV.
1200 Prospect Ave., Westbury, L. I., N. Y. (Tel. EDgewood 3-6000)
Purch. Agent: James Owens
Buyer: Louis Addazio
Sales Mgr.: T. Cataldo **PS, GS, GH, GE, TS, TR**

SERVWELL PRODUCTS CO.
6541 Euclid Ave., Cleveland 3, Ohio (Tel. EXpress 1-0497)
Dir.-Purch.: I. W. McCulley
Sales Mgr.: R. McCulley **GH**

SESCO MFG., INC.
4th & Prospect St., Bridgeport, Pa. (Tel. BRoadway 9-4350)
Pres.: S. E. Slaymaker, 3rd **MF, WN, PS, GS, GE, TS**

J. H. SESSIONS & SON
Riverside Ave., Bristol, Conn. (Tel. LUdlow 2-3127)
Pres.: Paul B. Sessions
Dir.-Sales: Ray Alcott **MM**

SETCHELL-CARLSON INC.
New Brighton, St. Paul 12, Minn. (Tel. MElrose 3-3131)
Pres. & Gen. Mgr.: B. T. Setchell
Secy.-Treas.: C. Donald Carlson
V. P.: Alice Chermak
Natl. Sales Dir.: Cal Karnstedt

SHAFER BEARINGS, CHAIN BELT CO.
Belmont at Curtiss St., Downers Grove, Ill. (Tel. WOodland 9-1770)
Purch. Agent: Robert L. Kaiser **GS, GH, GE**

SHALLCROSS MFG. CO.
Preston St., Selma, N. C. (Tel. WOodlawn 5-2341)
Purch. Agent: J. C. Scanlon
V. P.-Sales: D. M. O'Halloran **WN, CH, GE**

SHALLITE, INC.
128 W. First Ave., Roselle, N. J. (Tel. CHestnut 5-9800)
Purch. Agent: S. H. Olszewski
Pres. & Sales Mgr.: C. K. Krause **TR**

W. S. SHAMBAN & CO.
11617 W. Jefferson Blvd., Culver City, Calif. (Tel. TExas 0-6877); also Box 176, Meyer Rd., Ft. Wayne, Ind. (Tel. ANthony 6491)
Purch. Agent: Howard Drake
Sales Mgr.: Carl Wolff **WN, MM, R&D**

SHANNON LUMINOUS MATERIALS CO.
7356 Santa Monica Blvd., Hollywood 46, Calif. (Tel. HOllywood 7-5509)
Owner: James R. Alburger
Purch. (Gen.): Iris M. Guider **MF, GS, GE, CO, TR**

SHARON STEEL CORP.
Sharon, Pa. (Tel. DI 6-4141)
V. P.-Purch.: J. D. Neuman
Purch. Agent: G. R. McQuiston
V. P.-Comm.: W. J. McCune **MM**

SHARPLES CORP., THE
2300 Westmoreland St., Philadelphia 40, Pa. (Tel. BAldwin 8-9100)
Dir.-Purch.: William Neill
Sales Mgr.: Allen R. Greenlaw **MM, R&D**

SHAW BELTING CO., THE
150 William St., Middletown, Conn. (Tel. DI 6-8793)
Pres.: Ralph H. Shaw
Gen. Mgr.: Ralph H. Shaw, II **GH**

SHAW METAL PRODUCTS CORP.
101 Third Ave., Garden City Park, L. I., N. Y. (Tel. Pioneer 6-6650)
Purch. Agent: E. Morton **MF, PS, GS, GH, GE, CO, TS**

SHEFFIELD CORP., THE, SUB.-BENDIX AVIATION CORP.
Box 893, 721 Springfield St., Dayton 1, O. (Tel. CLearwater 4-5377)
Purch. Agent: Joseph Geyer **MF, PS, GS, GH, GE, CO, TS, TR**

SHELL CHEMICAL CORP., INDUSTRIAL CHEMICAL DIV.
380 Madison Ave., New York 17, N. Y. (Tel. OXford 7-3311)
Sales Mgr.: W. Q. Mooney
Gen. Mgr.-Purch.: W. H. Bratches **MF, PS, MM**

SHELL CHEMICAL CORP., PLASTICS & RESINS DIV.
50 W. 50th St., New York 20, N. Y. (Tel. JUdson 6-5000)
Gen. Mgr.-Purch.: W. H. Bratches
Sales Mgr.: D. P. Jones

SHELTERED WORKSHOPS
2521 5th St., Santa Monica, Calif. (Tel. EXbrook 9-7741)
Factories: Plant #1, 2521 5th St., Santa Monica, Calif.; Plant #2, 10835 Hawthorne Blvd., Inglewood 2, Calif.
Gen. Mgr.: J. E. Anthony **MF, PS, GS, GH, TS**

SHENANGO FURNANCE CO., THE, CENTRIFUGALLY CAST PRODUCTS DIV.
Third St., Dover, O. (Tel. 4-2114)
Purch. Agent: William Hague
Sales Mgr.: K. L. Jansen

SHEPARD LABORATORIES, INC.
Broad St. at Park Ave., Summit, N. J. (Tel. CRestview 3-5255)
Purch. Agent: Enoch Jones
Product Mgr.: E. J. Quinby — GS, R&D

T. W. & C. B. SHERIDAN CO.
24701 Crenshaw Blvd., Torrance, Calif. (Tel. DA 6-6702)
V. P.-Gen. Mgr.-West Coast Div.: Landon R. Gray
V. P.-Sales Mgr.: Wm. E. Seaman, Sr. (Tel. DIgby 9-4090)
Dir.-Sales, Aircraft: Charles Frazee — MF, GS

SHERMAN INDUSTRIAL ELECTRONICS, DIV.-ENGRG. DESIGN INC.
601 W. College Ave., Box 813, State College, Pa. (Tel. ADams 8-0061)
Office Mgr.: A. Lynn McIlvaine
Gen. Mgr.: A. R. Farrell — R&D

SHIELDING INC.
Box 59, Riverton, N. J. (Tel. TAlmadge 9-1433)
Gen. Mgr.-Purch.: W. J. Ryan
Chief Engr.: A. J. Dicciani
V. P.-Sales: T. P. Reath — GS, TS

SHOCKLEY TRANSISTOR CORP.
1117 California Ave., Palo Alto, Calif. (Tel. DAvenport 1-2121)
Mktg. Mgr.: Frank Newman
Purch. Agent: Jack Carlson, 391 S. San Antonio Rd., Mountain View, Calif. (Tel. DAvenport 6-1300) — MM, R&D

SHURE BROTHERS, INC.
222 Hartrey Ave., Evanston, Ill. (Tel. DAvis 8-9000)
V. P.-Purch.: M. A. Cope
Buyers: L. Elkin & B. Farber
V. P.-Sales: V. Machin — GS, GE, TS, TR

SHUR-LOK CORP.
879 S. East St., Anaheim, Calif. (Tel. PRospect 4-2773)
Pres.: F. W. Rohe
Purch. Agent: W. A. Livingstone
Chief Engr.: D. B. Kreider — MF, PS

SIBLEY MACHINE & FOUNDRY CORP.
206 E. Tutt St., South Bend 23, Ind. (Tel. AT 8-4611)
Purch. Agent: E. A. Evans
Sales Mgr.: William H. Voll — WN

SIER-BATH GEAR & PUMP CO., INC.
9252 Hudson Blvd., N. Bergen, N. J. (Tel. UNion 9-3000)
Purch. Agent: Martin Naclerio
Sales Mgr.: J. A. Glaser — PS, GS, GH, TS

SIERRA ENGRG. CO.
123 E. Montecito Ave., Sierra Madre, Calif. (Tel. ELgin 5-3318)
Purch. Agent: Eugene Toms
Dir.-Sales: F. A. Ritterrath

SIERRACIN CORP., THE
903 N. Victory Blvd., Burbank, Calif. (Tel. VIctoria 9-2421)
Purch. Agent: Miss Helen Tyle
V. P.-Sales: J. E. Slatky — MM

SIGHTMASTER CORP.
50 Aleppo St., Providence, R. I. (Tel. TEmple 1-6200)
Purch. Agent: Lawrence Arnott
Sales Mgr.: Gilbert Glass — WN, PS, GE, CO, TR

SIGMA INSTRUMENTS, INC.
170 Pearl St., S. Braintree, Mass. (Tel. VIctor 3-5000)
Purch. Mgr.: Alfred E. Foley
Purch.: Kjell Pehrson
Sales Mgr.: R. B. Wolf — GE

SIGMAMOTOR, INC.
3 N. Main St., Middleport, N. Y. (Tel. RE 5-3611)
Pres.: Van G. Hungerford
Gen. Mgr.: Phillip J. Slattery — R&D

SIGNAL TRANSFORMER CO.
1661 McDonald Ave., Brooklyn 30, N. Y. (Tel. ESplanade 6-0615)
Purch. Agent: E. Hirsch
Buyer: H. Apotheka
Sales Mgr.: Wm. J. Brinkley, Jr. — GS, GH, GE

SIGNALITE INC.
37-41 Neptune Hwy., Neptune, N. J. (Tel. PRospect 5-2490)
V. P.-Sales: Alvin W. Gershon — GS, GE, TS, TR

SILENT HOIST & CRANE CO.
841 63rd St., Brooklyn 20, N. Y. (Tel. BEachview 8-2525)
Purch. Agent: Anthony Yuzzolino
Sales: M. M. Botnick

SILICON TRANSISTOR CORP.
150 Glen Cove Rd., Carle Pl., Long Island, N. Y. (Tel. Pioneer 2-4101)
Purch. Agent: Joseph Zack
Sales Mgr.: Robert L. Ashley

SILICONE INSULATION, INC.
1383 Seabury Ave., Bronx 61, N. Y. (Tel. SYcamore 2-4400)
Dir.-Purch.: G. Greck
Dir.-Sales: W. Elsfelder — WN

SILICONE PRODUCTS DEPT., GENERAL ELECTRIC CO.
Waterford, N. Y. (Tel. ADams 8-3330)
Purch. Agent: Paul Megan
Mgr.-Mktg.: Jerome T. Coe — MF, PS, WN

SILICONE SEALS, INC.
3694 Milwaukee Ave., Chicago 41, Ill. (Tel. AVenue 2-3787)
Secy.: Robert Shattow
Sales: Leonard E. Brown — MF, GS, GE

SILICONES DIV.-UNION CARBIDE CORP.
30 E. 42nd St., New York 17, N. Y. (Tel. MUrray Hill 6-1700)
Purch. Agent: J. W. Gordon, Long Reach Silicones Plant, P. O. Box 180, Sistersville, W. Va. (Tel. OLdfield 2-3211)
Asst. Purch. Agent: R. Ankrom, Sistersville
Gen. Sales Mgr.: L. J. Sinnott — MM

SIMMONDS AEROCESSORIES, INC.
105 White Plains Rd., Tarrytown, N. Y. (Tel. MEdford 1-7500)
Purch. Agent: T. McAdams
Gen. Contracts Mgr.: H. C. Pringle — MF, PS, TR, MM, R&D

SIMMONS FASTENER CORP.
N. Broadway, Albany 1, N. Y. (Tel. 62-5431)
V. P.-Gen. Mgr.: Harry H. Rose — MF, GS, GH, GE, CO, TS, TR, R&D

SIMONDS SAW & STEEL CO.
470 Main St., Fitchburg, Mass. (Tel. DIamond 3-3731)
Purch. Agent: Louis A. Little, Intervale Rd., Fitchburg, Mass.
Gen. Sales Mgr.: Clyde N. Mansur — MM

SIMPLEX PISTON RING MFG. CO.
12301 Bennington Ave., Cleveland 11, O. (Tel. CLearwater 2-2205) — MF, PS

SIMPLEX WIRE & CABLE CO.
79 Sidney St., Cambridge 39, Mass. (Tel. KIrkland 7-9000)
Adv. Mgr.: T. H. Marsh

SIMPSON ELECTRIC CO.
5200-18 W. Kinzie St., Chicago 44, Ill. (Tel. EStebrook 9-1121)
Purch. Agent: James Werner
Sales Mgr.: M. O. Buehring — TS

SINCLAIR MFG. CO.
S. Worcester St., P. O. Box 398, Chartley, Mass. (Tel. ATtleboro 1-2627)
Pres. & Treas.: John C. Sinclair
Sales Mgr.: Howard C. Brownell — MF, WN, PS, GS

SINCLAIR-COLLINS VALVE CO., DIV.-IBEC
454 Morgan Ave., Akron, Ohio (Tel. PR 3-6623)
Dir.-Purch.: R. R. Stull
Sales Mgr.: D. R. Branaka — GH, TS

SINGER MFG. CO., THE, MILITARY PRODUCTS DIV.
149 Broadway, New York 6, N. Y. (Tel. 9-1200)
Mgr., Military Products Div.: F. W. Howells — GS, GE, CO, TR, MM, R&D

SIOUX OIL CO.
P. O. Box 811, Newcastle, Wyo. (Tel. SHerwood 6-4445)
Purch. Agent: G. R. Kaul
Sales Mgr.: Leo Nelson

BERNARD SIROTTA CO.
624 Smith St., Brooklyn 31, N. Y. (Tel. TRiangle 5-3897) — MM

SIRVALCO SYSTEMS CORP.
43 Kendrick St., Wrentham, Mass. (Tel. EVergreen 4-3121)
Dir.-Purch.: James Mahoney
Dir.-Sales: E. Richard Bagarozy, New York, N. Y. (Tel. PLaza 3-3855)
V. P.: Vincent F. Siravo — PS, GH

SITTLER CORP.
18 N. Ada St., Chicago 7, Ill. (Tel. SEeley 3-4616)
V. P.-Purch.: S. J. Lanasa — MF, GS, GH, TS, TR

SIZE CONTROL CO., DIV.-AMERICAN GAGE & MACHINE CO.
2500 W. Washington Blvd., Chicago 12, Ill. (Tel. MO 6-6710)
Sales Mgr.: E. E. Olds — WN, TS, MM, R&D

C. SJOBERG & SON
415 Station St., Cranston 10, R. I. (Tel. HO 1-8220)
Owner: C. Sjoberg, Sr.

SKIATRON ELECTRONICS & TELEVISION CORP.
180 Varick St., New York, N. Y. (Tel. WAtkins 4-7060)
Purch. Agent: N. J. Ackerman
Prod. Mgr.: Albert Caputo
Sales: Frank V. Quigley — GS, GE, CO, TR, R&D

SKIDMORE-WILHELM MFG. CO.
442 Green Rd., Cleveland, Ohio (Tel. IVanhoe 1-4774)
Pres.: J. W. Wilhelm

SKINNER ELECTRIC VALVE DIV.
95 Edgewood Ave., New Britain, Conn. (Tel. BAldwin 9-4826)
Purch. Agent: Clifford Nelson
V. P.-Sales: D. M. Stevenson — PS, GS, GH, GE, TS

SKINNER PRECISION PRODUCTS
600 San Christopher St., Dunedin, Fla. (Tel. 81-5311)
Partners: Ben Skinner & B. C. Skinner — MF, PS, GS, GH

SKINNER SEAL CO.
3001 Sutter St., Santa Ana, Calif. (Tel. KI 5-5571)
Purch. Agent: Bill Philipson
Gen. Mgr.: Robert T. Skinner — MF, PS, GS, GE

SKYCRAFT TOOL ENGRG. CO.
11940 Bray St., Culver City, Calif. (Tel. LI 8-3265)
Purch. Agent: D. Harrison
Pres.: R. M. Harrison

SKYDYNE, INC.
River Rd., Port Jervis, N. Y. (Tel. 3-2241)
Dir.-Purch.: W. F. Maccallum
Buyer: B. E. Marchant
V. P. & Sales Mgr.: Robert L. Weill — MM, R&D

SKYLINE ELECTRIC & MFG. CO.
203 W. Thomas St., Seattle 99, Wash. (Tel. ATwater 4-8420)
Project Engr.: Benno Persitz (Tel. ATwater 3-6941) — GS, GH, GE, TR, R&D

SKYLINE PRODUCTS, INC.
819 Grand Blvd., Deer Park, N. Y. (Tel. DEer Park 2-8644)
V. P.-Sales: Thomas A. Perry
Buyer: John Canning
Pres.: Morris Herberg — MF, GS, GH

SKYVALVE INC.
2308 Washington Blvd., Venice, Calif. (Tel. EXbrook 6-3733); also 831 W. Fayette St., Syracuse 4, N. Y.
Purch. Agent: Anthony Vespa
Gen. Mgr.: Robert Schaller — PS, GS

SLAUGHTER CO., INC.
Piqua 18, O. (Tel. PRospect 3-5936) — TS

SLIP RING CO. OF AMERICA
(Plant) 3612 W. Jefferson Blvd., Los Angeles 16, Calif. (Tel. Republic 5-0253)
Purch. Agent: Larry Jacobson
Sales Mgr.: Robert A. Felburg (Engrg. & Sales) 5456 W. Washington Blvd., Los Angeles 16, Calif. (Tel. WEbster 1-8156) — GS, GE, CO, TS, TR

SLOAN CO., THE
4029 W. Burbank Blvd., Burbank, Calif. (Tel. VIctoria 9-4667)
Purch. Agent: B. K. Poncher
Gen. Mgr.: Paul N. Zazanis — GS, GH, GE, CO, TS, TR

SMALL MOTORS INC.
2076 Elston Ave., Chicago 14, Ill. (Tel. ARmitage 6-6900)
Pres.: R. R. Cook — PS, GS, GE, TS

A. O. SMITH CORP.
P. O. Box 584, 3533 N. 27th St., Milwaukee, Wisc. (Tel. UPtown 3-3000)
V. P.-Purch.: M. E. Morgan
Purch. Dept.: J. E. Borchert, A. J. Riedel, T. J.

CODING

Missile Frame	MF
Warhead & Nose Cone	WN
Propulsion System	PS
Ground Support	GS
Ground Handling	GH
Guidance Equipment	GE
Checkout Equipment	CO
Test Equipment	TS
Tracking & Telemetering	TR
Research & Development	R&D
Materials & Metals	MM

Pas & L. H. Lennart
Dir.-Defense Products: H. D. Barnes **MF, PS, R&D**

A. O. SMITH CORP., SMITH-ERIE DIV.
250 Park Ave., New York 17, N. Y. (Tel. YUkon 6-7400)
Purch. Agent: A. B. Modjeski, 5715 Smithway St., Los Angeles 22, Calif. (Tel. RAymond 3-3361)
Gen. Sales Mgr.: H. D. Leisenring

E. C. SMITH MFG. CO.
Forrest & Hector Sts., Conshohocken, Pa. (Tel. TAylor 8-4790)
Dir.-Sales: Earl C. Smith

G. W. SMITH & SONS, INC.
1700 Spaulding Rd., Dayton, Ohio

L. B. SMITH AIRCRAFT CORP.
P. O. Box 456, International Airport Br., Miami 48, Fla. (Tel. TUxedo 8-8481)
Mgr.-Materials: Lloyd G. Culbertson
Purch. Agent: George Ceglar
V. P.-Aerosmith Prod: W. Peckham
V. P.-Aircraft Sales & Serv.: George R. Dutton

SMITH-MORRIS CORP.
825 Myrtle St., Ferndale, Mich. (Tel. JOrdan 6-3124)
Purch. Agent: L. Gnich
Sales Mgr.: G. W. Smith **MF, WN, PS, GS, GH, GE**

SMOOTH-ON MFG. CO.
572 Communipaw Ave., Jersey City 4, N. J. (Tel. HEnderson 3-0076)
Gen. Mgr.: H. M. Silver
Sales Mgr.: G. T. Morse **MM**

SNAP-ON-TOOLS CORP.
8154 28th Ave., Kenosha, Wisc. (Tel. OL 4-8681)
Dir.-Purch.: Frank A. Tetzlaff
Dir.-Sales: Rogers Palmer

SNAP-TITE, INC.
201 Titusville Rd., Union City, Pa. (Tel. 497)
V. P.-Purch.: Myron W. Shafer
V. P.-Sales: Leonard M. Clark **PS, GS, GH**

SODERBERG MFG. CO., INC.
628 S. Palm Ave., Alhambra, Calif. (Tel. CUmberland 3-3382)
Purch. Agent: W. G. Lee
Sales Mgr.: W. W. Hulke **MF, GS, GH, TS, TR**

SOLAR AIRCRAFT CO.
2200 Pacific Hwy., San Diego 17, Calif. (Tel. BElmont 3-8241)
Mgr.-Purch.: William L. Vaughan
Supvr.-Buying: C. E. Powers
V. P.-Sales: Lynn D. Richardson
MF, WN, GS, GE, MM, R&D

SOLARTRON INC.
10761 Burbank Blvd., N. Hollywood, Calif. (Tel. ST 7-5081)
Office Mgr.: J. A. Hughes
Sales Mgr.: F. J. Steward **GS, GE, CO, TS**

SOLON FOUNDRY, INC.
6370 SOM Ctr. Rd., Solon, O. (Tel. CHurchill 8-5304)
Purch. Agent: H. A. Lucas
Dir.-Sales: George N. Wright **MF, WN**

SOMERS BRASS CO. INC.
94 Baldwin Ave., Waterbury, Conn. (Tel. PLaza 6-8321)
Purch. Agent: William Jay
Sales Mgr.: Claude S. Speicher **MM**

SONOTONE CORP.
Elmsford, N. Y. (Tel. LY 2-6400)
Dir.-Purch.: John J. Downs
Battery Sales Mgr.: Eugene F. Murphy **PS, R&D**

SORENSEN & CO., INC.
Richards Ave., S. Norwalk, Conn. (Tel. TE 8-6571)
Purch. Mgr.: C. Boylan
Chief Purch. Agent: N. Grosso
Buyers: M. J. Ruddock, J. Harwood & R. Kassnoff
Mgr.-Mktg.: P. J. Deery **GS, CO, R&D**

SOROBAN ENGRG., INC.
Box 1717, Melbourne, Fla. (Tel. PA 3-7221)
Purch. Agent: Albert George
Pres.: C. F. West **GE, CO, TS, TR**

SOUND APPARATUS CO.
Morris St., Stirling, N. J. (Tel. MIllington 7-0600)
Purch.: H. Niemann **TS**

SOUTH RIVER METAL PRODUCTS CO., INC.
377 Turnpike, S. River, N. J. (Tel. CLifford 4-5253)
Gen. Mgr.: J. Cohn
Sales Mgr.: Martin L. Roth **MF, WN, PS, GH**

SOUTH WIND DIV., STEWART WARNER CORP.
1514 Drover St., Indianapolis, Ind. (Tel. MElrose 2-8411)
Dir.-Purch.: Paul Ostler
Purch. Agent: George Leiendecker
Buyer: Sam Salatich
Prod. Mgr.: L. E. Bass
Mgr.-Field Repres.: J. O. Coffey
MF, PS, GS, TR, R&D

SOUTHCO DIV., SOUTH CHESTER CORP.
Lester, Pa. (Tel. LEhigh 4-1800)
Purch. Agent: C. R. Hirzel
Gen. Mgr.-Sales: T. R. Dunlevy **MF**

SOUTHERN CALIF. COOPERATIVE WIND TUNNEL-CALIF. INST. OF TECH.
950 S. Raymond Ave., Pasadena, Calif. (Tel. SYcamore 9-4117)
Associate Dir.: Fred H. Felberg
Chief-Operations Dept.: Paul F. Keller **TS**

SOUTHERN ELECTRONICS CORP.
150 W. Cypress Ave., Burbank, Calif. (Tel. VIctoria 9-3193)
Purch. Agent: R. D. Hirst
Sales Mgr.: George E. Gansell **GE, TS, TR**

SOUTHWEST PRODUCTS CO.
1705 S. Mountain Ave., Monrovia, Calif. (Tel. ELliott 8-0181)
Pres. & Gen. Mgr.: K. V. Hackman
MF, WN, PS, GS, GH, GE

SOUTHWEST PRODUCTS, INC.
Rt. 4, Box 90, San Antonio, Tex. (Tel. GEneral 2-5266)
Purch. Agent: Robert Callsen **CO, TS**

SOUTHWESTERN INDUSTRIAL ELECTRONICS CO.
10201 Westheimer Rd., P. O. Box 13058, Houston 19, Tex. (Tel. HOmestead 5-3471)
Purch. Agent: W. T. Wooddell
Buyer-Electronic: G. Knower
Buyer-Mechanical & Misc.: C. Brock
V. P.-Sales: R. H. Parker
Gen. Sales Mgr.: W. C. Dunn
GS, GH, GE, CO, TS, TR, R&D

SOUTHWESTERN INDUSTRIES, INC.
5880 Centinela Ave., Los Angeles 45, Calif. (Tel. ORegon 8-8915)
Purch. Agent: Dean F. Dirkson
Pres.: F. P. Jenks **PS, GS, GE, CO**

SOUTHWIRE CO.
14 Fertilla St., Carrollton, Ga. (Tel. TErrace 2-6311)
Purch. Agent: James A. Hatley
Sales Mgr.: J. H. Griffin **MM**

SPACE CORP.
P. O. Box 5172, Dallas 22, Tex. (Tel. BR 6-5121)
Dir.-Purch.: James J. Nelsen
Asst. Dir.-Purch.: Jay Horne
Buyers: Earl Grunewald, Gene Grubbs, Ken Gracy & George Beardsley
V. P.-Sales: Ellie Jones **GS, GH, CO, TS, TR, R&D**

SPACE TECHNOLOGY LAB.
5740 Arbor Vitae, Inglewood, Calif.

SPACEFLIGHT FILMS
9 W. 19th St., New York 11, N. Y. (Tel. AL 5-1827)
Dir.-Purch.: Alex Haberstroh

SPARKLER-FILTRION CORP.
24th & Commonwealth, North Chicago, Ill. (Tel. DExter 6-4050)
V. P.-Res. & Dev.: Robert Blevitzky
Pres.: Fred H. Horne

SPARTA MFG. CO., DIV.-U. S. CERAMIC TILE CO.
Dover, O. (Tel. DOver 4-2380)
Plant Mgr.: C. M. Starkey
Sales Mgr.: Myron L. Bailey **MF, WN, PS, GE, TR**

SPARTAN MARKING CORP.
222 W. Huron St., Chicago 10, Ill. (Tel. SUperior 7-6630)
Sales Mgr.: J. V. Galloway
MF, WN, PS, GS, GE, CO, TS, TR

SPAULDING FIBRE CO., INC.
310 Wheeler St., Tonawanda, N. Y. (Tel. JAckson 2000)
Purch. Agent: W. L. Grieser
Gen. Sales Mgr.: W. R. Gilsdorf **MM**

SPEC TOOL CO.
9626 E. Beverly Rd., Pico Rivera, Calif. (Tel. OX 5-9117)
Purch. Agent: R. J. Snider
Sales Mgr.: J. M. Caulfield **GS, GH**

SPECIAL INSTRUMENTS DIV., BRITISH INDUSTRIES CORP.
80 Shore Rd., Port Washington, N. Y. (Tel. PO 7-7700)
Dir.-Sales: S. Bosworth

SPECIAL PROJECTS LAB., FOOD MACHINERY & CHEMICAL CORP.
Box 58, Station G, Buffalo 13, N. Y. (Tel. GArfield 6320)
Purch. Agent: Edwin Falts
Operating Mgr.: John Keefe **PS, GH, TS, R&D**

SPECIALTIES, INC.
Skunks Misery Rd., Syosset, N. Y. (Tel. WAlnut 1-2345)
Purch. Agent: George Chadwick
V. P.-Sales: John C. Slocum **GS, GE, R&D**

SPECIALTIES MFG. CO., INC.
125 Bruce Ave., Stratford, Conn. (Tel. EDison 7-4429)
Purch. Agent: J. J. Zimmer
Sales Mgr.: A. I. Zimmer

SPECIALTY ENGRG. & ELECTRONICS CO.
79 Clifton Pl., Brooklyn 38, N. Y. (Tel. ULster 7-4760)
Chief Purch. Agent: J. Ross
Purch. Agent, Electronic: D. Alster
Purch. Agent, Factory Supply: W. Prichep
Purch. Agent, Mech. Parts: M. Friedlander
Sales Mgr.: H. R. Cammer **GS**

SPECIALTY PLUG & CAP CO.
5422 Fairlawn Ave., Baltimore 15, Md.
Dir.-Sales: H. E. Foxman **GH, TS**

SPECIALTY PRODUCTS CORP.
29980 Lakeland Blvd., Wickliffe, O. (Tel. WHitney 3-3040)
Purch. Agent: Howard Seabeck
Dir.-Sales: J. J. Skelly **MF, GS, GH, GE, CO, TS**

SPECTRA-STRIP WIRE & CABLE CORP.
P. O. Box 415, 10052 Larson Ave., Garden Grove, Calif. (Tel. JEfferson 7-4530)
Purch. Agent: Donald D. Lang
Sales Mgr.: John Ford **GS, GE, TS**

SPECTROL ELECTRONICS CORP.
1704 S. Del Mar Ave., San Gabriel, Calif. (Tel. ATlantic 7-9761)
Purch. Agent: H. J. Fedora
Sales Mgr.: Robert K. Burtner **GS, GE, R&D**

SPECTRONIC PLATING CO., INC., DIV-SPECTRANOME PLATING CO., INC.
330 W. 13th St., New York 14, N. Y. (Tel. ALgonquin 5-8677)
Purch. Agent: K. Philips
Sales Mgr.: E. J. Brennan **MM, R&D**

SPECTRUM INSTRUMENTS, INC.
Box 61 Steinway Sta., Long Island City 3, N. Y. (Tel. AStoria 8-8033)
Purch. Agent: J. F. McClean **TS, R&D**

SPENCER DIV.-METALS & CONTROLS CORP.
34 Forest St., Attleboro, Mass. (Tel. ATtleboro 1-2800)
Purch. Agent: E. B. Carpenter
V. P.-Mktg.: J. F. Wilson **GS, GH, GE**

SPENCER-SAFFORD
Augusta, Kans.

SPERRY ELECTRONIC TUBE DIV.-SPERRY RAND CORP.
Gainesville, Fla. (Tel. FRanklin 2-0411)
Sales Mgr.: J. R. Whitford
GS, GE, CO, TS, TR, R&D

SPERRY FARRAGUT CO., DIV.-SPERRY RAND CORP.
Bristol, Tenn. (Tel. WOodland 8-1151)
Purch. Agent: S. J. Nastri
Buyer, Subcontracts: J. V. Wilson
Buyers: C. R. Keith, H. W. Peters, T. R. Rutledge & W. R. McCracken
Sales Mgr.: C. W. Brown **GE, R&D**

SPERRY GYROSCOPE CO., MARINE DIV.-SPERRY RAND CORP.
Roosevelt Field, Garden City, L. I., N. Y. (Tel. Pioneer 2-4400)
Sales Mgr.: C. W. Whell
Chief Buyer: L. S. Wichser, 3 Aerial Way, Syosset, L. I., N. Y. (Tel. WElls 8-8000)
GE, CO, TS, R&D

SPERRY MICROWAVE ELECTRONICS CO., DIV.-SPERRY RAND CORP.
Clearwater, Fla. (Tel. REdwood 6-4161)
Sales Mgr.: E. C. Best **GS, CO, TS, R&D**

SPERRY PIEDMONT CO., DIV.-SPERRY RAND CORP.
Rt. 29, Charlottesville, Va. (Tel. 3-6111)
Chief Buyer: E. Hopkins
Chief Buyer-Comm. Prods.: T. McCartin
Sales Mgr.: L. W. Gibson **GE, CO, R&D**

SPERRY PRODUCTS, INC.
Shelter Rock Rd., Danbury, Conn. (Tel. Pioneer 8-3581)
Purch. Agent: C. W. Penque
Asst. Sales Mgr.: R. Y. Neiley **TS**

SPERRY RAND CORP.
30 Rockefeller Plaza, New York 20, N. Y. (Tel. CIrcle 6-4800)

SPERRY SEMICONDUCTOR DIV.-SPERRY RAND CORP.
South Norwalk, Conn. (Tel. VOlunteer 6-1641)
Sales Mgr.: A. M. Varnum **GE, TR, R&D**

SPHERE CO. INC., THE
25 Amity St., Little Falls, N. J. (Tel. CLifford 6-2550)
Pres.: C. E. Beronio
Sales Mgr.: A. D. Travis

SPHINX-AMERICAN CO.
42 Cherry Lane, Floral Park, L. I., N. Y. (Tel. HUnter 8-2600)
Dir.-Purch: Herman H. Batie
Dir.-Sales: Henry Nomburg **MM**

SPINCRAFT, INC.
4158-C W. State St., Milwaukee 8, Wisc. (Tel. DIvision 2-0730)
Purch. Agent: Anthony Brinovec, 4122 W. State St., Milwaukee 8, Wisc.
V. P.-Sales: George F. Farley **MF, WN, MM, R&D**

SPIROID DIV.-ILLINOIS TOOL WORKS
2501 N. Keeler Ave., Chicago, Ill. (Tel. CA 7-2200)
Purch. Agent: Arthur Froehlich
Div. Mgr.: F. Bohle

SPLIT BALLBEARING, DIV.-MPB
Lebanon, N. H. (Tel. 800)
Purch. Agent: R. E. Tinkham
Sales Mgr.: A. J. Renz **PS, GE**

SPRAYING SYSTEMS CO.
3201 W. Randolph St., Bellwood, Ill. (Tel. LInden 4-0380)
Purch. Agent: W. C. Bloomer
Sales Mgr.: Joseph Pelej **GS**

R. SPRUCE CO.
An Affiliate of American Aviation Publications, Inc., 608 S. Dearborn St., Chicago 5, Ill. (Tel. WAbash 2-1279)
Mgrs.: Robert E. Tynan & Paul W. Higgins **TP**

SPRUCE PINE MICA CO.
P. O. Box 456, Spruce Pine, N. C. (Tel. POplar 5-4241)
Pres.: S. A. Montague
V. P.-Sales: E. H. Farnam **MM**

SQUIERS GAGE CO.
3784 W. 11 Mile Road, Berkley, Mich. (Tel. JO 4-5980)
Purch. Agent: C. F. McDonald
Pres.: R. D. Squiers **GS, GH, TS**

STACKPOLE CARBON CO.
1942 Stackpole St., St. Marys, Pa. (Tel. TE 4-1521)
Purch. Agent: O. R. Hagan
Mgr., Carbon Sales: W. E. Clancy **GE, TR, MM**

STAINLESS INC.
North Wales, Pa. (Tel. OXbow 9-4871)
Purch. Agent: R. F. Farrington
Engrg. Sales Mgr.: John F. Guzewicz
MF, GS, GH, TS, TR, R&D

STAINLESS STEEL PRODUCTS, INC.
2980 N. San Fernando Blvd., Burbank, Calif. (Tel. VI 9-3283)
Purch. Agent: E. A. Moore
Contract Admin.: Wm. Van Den Akker
MF, PS, GS, GH, GE

STALKER CORP., THE
911 Woodside Ave., Essexville, Mich. (Tel. TWinbrook 3-7562)
Purch. Agent: R. A. Bluhm **PS, R&D**
Sales Mgr.: W. W. Dempsey

STANAT MFG. CO., INC.
515 Shames Dr., Westbury, L. I., N. Y. (Tel. EDgewood 4-8700)
Purch. Agent: John Vanderwoude **MF, WN, PS, GS**

STANCIL-HOFFMAN CORP., THE
921 N. Highland Ave., Hollywood 38, Calif. (Tel. HOllywood 4-7461)
Purch. Agent: J. V. Kelly
Sales Mgr.: R. H. Stensby **GE, TS, TR**

STANDARD CABINET CO.
61 Washington Ave., Carlstadt, N. J. (Tel. GEneva 8-1500)
Pres.: E. S. Brown
Sales Mgr.: R. O. Norton **GS, TS**

STANDARD COILS PRODUCTS CO., INC., DIV.-KOLLSMAN INSTRUMENT CORP.
80-08 45th Ave., Elmhurst, N. J.

STANDARD CONTROLS, INC.
1130 Poplar Pl., Seattle 44, Wash., (Tel. KA 4-8888)
Pres.: W. A. Paine, II
Buyer: R. Helmick
Sales Mgr.: W. E. Forland **PS, GS, GE, CO, TS**

STANDARD ELECTRIC CO., INC.
P. O. Box 6356, 3016 Austin Hwy., San Antonio 9, Tex. (Tel. TA 2-3341)
Pres.: Leo Dubinski

STANDARD ELECTRIC TIME CO., THE
89 Logan St., Springfield, Mass. (Tel. REpublic 6-7237)
V. P.-Purch.: L. P. Marshall
Dir.-Sales: R. M. Warren **CO, TR, R&D**

STANDARD ELECTROMAGNETICS, INC.
Walkersville, Md. (Tel. VInewood 5-3041)
Pres.: E. J. Boland
Dir.-Sales & Engrg.: R. P. Bennett **GS, TS, TR**

STANDARD ELECTRONICS DIV., RADIO ENGRG. LABS. INC.
29-01 Bordon Ave., Long Island City, N. Y. (Tel. STillwell 6-2100)
Purch. Agent: Wm. Dunwe
V. P.-Sales: Wm. H. Zillger

STANDARD FELT CO.
29-115 S. Palm Ave., Alhambra, Calif. (Tel. ATlantic 2-5106)
Purch. Agent: K. Brunk **MF, PS**

STANDARD GAGE CO., INC.
70 Parker Ave., Poughkeepsie, N. Y. (Tel. GRover 1-3100)
Purch. Agent: J. Phillips
Sales Mgr.: D. C. Cunningham

STANDARD LOCKNUT & LOCKWASHER INC.
2250 Valley Ave., Indianapolis 18, Ind. (Tel. ME 2-9505)
Office Mgr.: R. E. Ramage
V. P.-Sales: T. D. Donahue **MM**

STANDARD METALS CORP.
262 Broad St., N. Attleboro, Mass. (Tel. MYrtle 5-9395)
Purch.: Lloyd W. Chase, Jr.
Sales: Donald Kingman
MF, WN, PS, GS, GE, TS, TR

STANDARD OIL CO. OF INDIANA
910 S. Michigan Ave., Chicago 80, Ill. (Tel. HArrison 7-9200)
Dir.-Sales: John D. Neesley **PS**

STANDARD PRESSED STEEL CO.
Box 1105, Jenkintown, Pa. (Tel. TUrner 4-7300)
Dir.-Purch.: J. P. Moorhouse
Asst. Dir.-Purch.: R. C. Gibbs
Gen. Mgr., Aircraft/Missile Div.: J. P. Villo
MM, R&D

STANDARD STEEL CORP.
5001 Boyle Ave., Los Angeles 58, Calif. (Tel. LU 5-1231)
Dir.-Purch.: Claude M. Turner **GS**

STANDARD-THOMSON CORP., CLIFFORD MFG. CO. DIV.
152 Grove St., Waltham 54, Mass. (Tel. TWinbrook 4-7310)
Dir.-Purch.: Elmer F. Wilcox
Sales Mgr., Aircraft Div.: Gunnar G. Karlson
MF, PS

STANFORD RESEARCH INSTITUTE
333 Ravenwood, Menlo Park, Calif. (Tel. DAvenport 6-6200)
Purch. Agent: Lenora Whitman **R&D**

WILLIAM W. STANLEY CO. INC.
401 Broadway, New York, N. Y. (Tel. CA 6-5420)
V. P.-Purch.: A. R. Peer
Treas.: S. H. Doggett, Jr.

STANLEY AVIATION CORP.
2501 Dallas St., Denver 8, Colo. (Tel. EMpire 6-3581)
Dir.-Purch.: R. Fuller
Purch. Agent: C. Besemann
Buyers: A. Buschback, T. Wright
V. P.-Sales: R. H. Frost
MF, GS, GH, CO, TS, TR, R&D

STANLEY-JUDD DIV.-THE STANLEY WORKS
42 S. Cherry St., Wallingford, Conn. (Tel. COlony 9-3353)
Purch. Agent: Frank Karolshak
Comm. Sales Mgr.: Bradford M. Scott
Asst. Sales Mgr.: Warren H. Tarrant
Gen. Mgr.: H. Henry Martens **WN, GS, GE**

STANWYCK WINDING CO., INC.
137-151 Walsh Ave., Newburgh, N. Y. (Tel. NEwburgh 3360)
V. P.-Purch.: Nicholas Stanwyck
Pres.: Wm. J. Stanwyck

STAR EXPANSION
Mountainville, N. Y. (Tel. COrnwall 3-3755)
Purch. Agent: Robert Schneider
Buyers: Donald Crocker & Jules Yonez
V. P.-Sales: Harry Fox

STAR STAINLESS SCREW CO.
655 Union Blvd., Paterson, N. J. (Tel. CLifford 6-2300)

STARK TOOL CO.
Box 288, Ann Arbor, Mich. (Tel. HUnter 3-4233)
Purch. Agent: James V. Wood
Sales Mgr.: Harold Stark

L. S. STARRETT CO., THE
121 Crescent St., Athol, Mass. (Tel. CHurchill 9-3551)
Purch. Agent: C. B. McMillan
V. P.-Sales: C. O. Newton **GS**

STATE TESTING LABORATORY INC.
226 Knowlton St., Bridgeport, Conn. (Tel. ED 4-4079)
Secy. & Treas.: E. B. Pickman **TS, R&D**

STATES CO., THE
19 New Park Ave., Hartford 6, Conn. (Tel. ADams 3-6232)
Purch. Agent: William Steidel
Sales Mgr.: Howard N. Porter **TS, R&D**

STATHAM INSTRUMENTS, INC.
12401 W. Olympic Blvd., Los Angeles, Calif. (Tel. BR 2-0371)
Purch. Agent: Robert Moore
Dir.-Mktg.: Robert Lent
MF, WN, PS, GS, GE, TS, TR, R&D

STATIKIL, INC.
1220 W. 6th St., Cleveland 13, O. (Tel. CHerry 1-3939)
V. P.-Purch.: Donald J. Doyle **GS, TR**

STATOR ELECTRIC CORP.
46-25 58th St., Woodside 77, N. Y. (Tel. HIckory 6-9092)
Pres.: Martin Blumenthal

STAVER CO., INC., THE
47 N. Saxon Ave., Bay Shore, N. Y. (Tel. 7-3620)
Secy.: R. W. Collins
V. P.: J. B. Lazarus
MF, WN, PS, GS, GE, CO, TS, TR

STAVID ENGRG., INC.
U. S. Hwy. 22, Plainfield, N. J. (Tel. PLainfield 7-1600)
Purch. Agent: J. H. Tchorni
Dir.-Contracts & Sales: H. J. Bradfield
GE, CO, TS, TR, R&D

STEARNS-ROGER MFG. CO., THE
P. O. Box 5370, Denver 17, Colo. (Tel. AComa 2-8484)
Chief Purch. Engr.: R. W. Graeber
Asst. Chief Purch. Engr.: J. G. Constantine
Purch. Engrs.: J. H. Carr & O. E. Froid
Div. Mgr.: R. W. Akerlow **PS, GS, GH, TS, R&D**

HERMAN D. STEEL CO.
Lafayette Bldg., Philadelphia 6, Pa. (Tel. WA 5-1990)
Head-Purch. Dept.: P. N. Steel, Jr.
Head-Sales: W. W. Woolford **MF, WN, PS, GS, GE**

STEEL CITY TESTING MACHINES, INC.
8817 Lyndon Ave., Detroit 38, Mich. (Tel. WEbster 3-3500)
Purch. Agent: Jos. O'Brien
Pres.: Louis A. Welt **TS**

STEEL IMPROVEMENT & FORGE CO., THE
970 E. 64th St., Cleveland 3, Ohio (Tel. UTah 1-8600)
Purch. Agent: Ford Parkes
Steel Buyer: George Mahon
V. P.-Sales: H. A. Zimmerman **MM**

STEIN SEAL CO.
20th St. & Indiana Ave., Philadelphia 32, Pa. (Tel. BAldwin 3-3513)
Asst. Gen. Mgr.-Purch.: Lawrence Goldschmidt
Gen. Mgr.-Sales: P. C. Stein **PS**

STEPHENS ADAMSON MFG. CO., SEAL MASTER BEARING DIV.
Ridgeway Ave., Aurora, Ill. (Tel. AUrora 2-4311)
Purch. Agent: K. Johnson
V. P.-Bearing Div.: C. B. Hurd **PS, GH, R&D**

CODING

Missile Frame	MF
Warhead & Nose Cone	WN
Propulsion System	PS
Ground Support	GS
Ground Handling	GH
Guidance Equipment	GE
Checkout Equipment	CO
Test Equipment	TS
Tracking & Telemetering	TR
Research & Development	R&D
Materials & Metals	MM

STERLING GLASS CORP.
304 E. 116th St., Chicago, Ill. (Tel. PU 5-7462)
V. P.-Purch.: Blase Lazzara
Pres.: R. L. Cunningham GE, TR, MM, R&D

STERLING PRECISION CORP., INSTRUMENT DIV.
17 Matinecock Ave., Port Washington, N. Y. (Tel. PO 7-7200)
Purch. Agent: J. Cassota
Purch. Agent, Res. & Dev.: Arthur Chirkis
Gen. Sales Mgr.: H. J. Hannon
GS, GH, GE, CO, TS, R&D

STERLING TRANSFORMER CORP.
297 N. 7th St., Brooklyn 11, N. Y. (Tel. STagg 2-4200)
Purch. Agent: Coleman Sanders
Sales Mgr.: E. Martoccia GS, GE, TS, TR

STERLING-HOWARD CORP.
561 E. Tremont Ave., New York 57, N. Y. (Tel. CYpress 9-6400)
V. P.-Purch.: Irving M. Carr
Sales Mgr.: Harry Astor

A. T. STEVENS CO.
118 E. 28th St., New York 16, N. Y. (Tel. MUrray Hill 5-1877)
Purch. Agent: R. Duke Powell, Jr.
MF, WN, PS, GS, CO, TS

STEVENS MFG. CO., INC.
P. O. Box 1007, Mansfield, O. (Tel. TUxedo 4-1311)
Dir.-Purch.: L. C. Frasher
V. P.-Sales: G. H. Rouse
V. P.-Engrg.: C. S. Mertler MM

STEVENS PRODUCTS, INC.
86 Main St., E. Orange, N. J. (Tel. OR 2-2140)
V. P.: Ross S. Stevens
Sales Mgr.: John Thomson MM

M. C. STEWART
Ashburnham, Mass. (TA 7-5840)
Pres.: M. C. Stewart GS, R&D

F. W. STEWART CORP.
4311-13 N. Ravenswood Ave., Chicago 13, Ill. (Tel. GRaceland 2-6600)
Gen. Mgr.: J. H. Jacobsen
Purch. Agent: G. O. Talley
Sales Mgr.: R. A. Thies
Chief Engr.: J. Hrouda GH, GS, GE, TR

STEWART-WARNER CORP.
1826 Diversey Pkwy., Chicago, Ill. (Tel. LAkeview 5-6000)
Dir.-Purch., Stewart-Warner Corp., 1826 Pkwy., Chicago 14, Ill.: E. N. Osterberg
Dir.-Purch., Stewart-Warner Electronics, 1300 N. Kostner Ave., Chicago, Ill.: I. Blackberg (Tel. AL 2-1000)
Purch. Agent, Stewart-Die Casting Co., 4535 Fullerton Ave., Chicago, Ill.: R. C. Olsen (Tel. AL 2-5308)
Purch. Agent, Stewart-Warner Corp., 1514 Drover, Indianapolis, Ind.: P. Ostler
Purch. Agent, The Bassick Co., Bridgeport, Conn.: G. Raiselis MF, WN, PS, GS, GE, TS, TR

STIC-KLIP MFG. CO.
180 Regent St., Cambridge 40, Mass. (Tel. UNiversity 4-6260)
Gen. Mgr.: G. N. Maloney MM

EDWIN B. STIMPSON CO., INC.
70 Franklin Ave., Brooklyn, N. Y. (Tel. ULster 5-3131)
Dir.-Purch.: Mr. Schumacher
Dir.-Sales: Mr. Larson MM

STODDART AIRCRAFT RADIO CO., INC.
6644 Santa Monica Blvd., Hollywood 38, Calif. (Tel. HOllywood 4-9292)
Purch. Agent: Glenn Fogg
Sales Mgr.: John R. Stevenson GS, TS, R&D

F. J. STOKES CORP.
5500 Tabor Rd., Philadelphia, Pa. (Tel. CUmberland 9-0100)
Mgr.-Materials & Prod. Planning Dept.: W. T. Minnick
Buyers: D. Law, C. Roney, W. Schmucker & F. Urban
V. P.-Sales: A. A. Hutchings PS, GS, GH

A. U. STONE & CO., INC.
17 W. 60th St., New York, N. Y. (Tel. COlumbus 5-1350)
Purch. Agent: H. Grant
Pres.: Allan Stone MF, WN, PS, GS

STONE CITY PRODUCTS CO.
1206 7th St., P. O. Box 351, Bedford, Ind. (Tel. BRowning 5-3373)
Owner: D. H. Rariden

STRAND ENGRG. CO.
1354 N. Main St., Ann Arbor, Mich. (Tel. NOrmandy 2-3127)
Controller: K. L. Leighton
V. P.-Engrg.: R. E. Miller GE, CO, TS, TR, R&D

STRATOFLEX, INC.
220 Roberts Cut-Off, Ft. Worth, Tex. (Tel. PErshing 8-6543)
Purch. Agents: E. E. Bradley & B. W. Harper
Buyer: James Clayton
Pres.: C. A. Thomas
MF, PS, GS, GH, CO, TS, MM, R&D

STRATOS, DIV.-FAIRCHILD ENGINE & AIRPLANE CORP.
Orinoco Dr., Bay Shore, L. I., N. Y. (Tel. MOhawk 5-0100)
Purch. Agent: John A. L'Hommedieu
Gen. Sales Mgr.-Aviation Prods.: W. Thomas Stark
Western Branch: 1800 Rosecrans Ave., Manhattan Beach, Calif. (Tel. OSborne 5-9111)
Purch. Agent: F. S. Lakin WN, PS, GS, GH, R&D

STRAT-O-SEAL MFG. CO.
3039 W. Fullerton, Chicago 47, Ill. (Tel. HUmboldt 9-1282)
Plant Mgr.: Howard O. Walsh GS

STROMBERG-CARLSON DIV.-GENERAL DYNAMICS CORP.
100 Carlson Rd., Rochester, N. Y. (Tel. HUbbard 2-2200)
Gen. Purch. Agent: John W. Averill
Purch. Agent, Electronics Div.: Miles G. Agan (Tel. FIllmore 2-8000)
Purch. Agent, Telecommunications Div.: Donald G. Rosin CO, TS, TR

STRONG SCOTT MFG. CO., THE
451 Taft St. N. E., Minneapolis 13, Minn. (Tel. STerling 1-7461)
Purch. Agent: B. H. Hollen
Mgr., Contract Div.: M. G. Mutch WN, PS, GH, R&D

STRUTHERS-DUNN, INC.
Lamb's Rd., Pitman, N. J. (Tel. LUther 9-7500)
Purch. Agent: G. M. Herb
V. P.-Sales: G. B. Conger, Jr.

W. WHITNEY STUECK, INC.
Box 355 MR, Old Saybrook, Conn. (Tel. EV 8-9309)
Pres.: W. Whitney Stueck

P. A. STURTEVANT CO.
Addison, Ill. (Tel. ELmhurst, Ill.-TErrace 4-2000)
Purch. Agent: Joe Esposito
Sales Mgr.: Lee A. Sturtevant TS

STURTEVANT MILL CO.
103 Clayton St., Dorchester, Boston 22, Mass. (Tel. TAlbot 5-6500)
Purch. Agent: Walter Masuret
Pres.: G. P. Towle GS, GH

SUFFOLK PRODUCTS CORP.
Woodbine & Scudder Aves., Northport, N. Y. (Tel. ANdrew 1-7000)
Head-Purch. Dept.: Fred Marin
Sales Engr.: C. J. Dvorak MF, TR

H. W. SULLIVAN, LTD.
80 Shore Rd., Port Washington, N. Y. (Tel. PO 7-7700)
Dir.-Sales: Si Bosworth

SUMMERS GYROSCOPE CO.
2500 Broadway St., Santa Monica, Calif. (Tel. EXbrook 3-6711)
Dir.-Purch.: Ray Williams
Dir.-Sales: Charles Z. Becker GS, GE, CO, TS

SUN DIAL CORP.
P. O. Box 326, Passaic Ave., Caldwell, N. J. (Tel. CApital 6-4334)
Office Mgr.: George J. Martin
Sales Mgr.: Cornelius Lokker GS, GE, CO, TS

SUN ELECTRIC CORP., AERONAUTICAL DIV.
Harlem & Avondales Aves., Chicago 31, Ill. (Tel. NEwcastle 1-6000)
Dir.-Purch.: R. E. Kane
V. P.-Dir., Aeronautical Div.: F. E. Draper
GS, CO, TS, R&D

SUNDSTRAND AVIATION, DIV.-SUNDSTRAND MACHINE TOOL CO.
2421 11th St., Rockford, Ill. (Tel. 8-6811)
Dir.-Prod. & Purch.: Quin Bowen
Purch. Mgr.: Don Bredahl
Contracts Mgr.: P. A. Anderson
MF, PS, GS, GH, GE

SUNDSTRAND TURBO
2480 W. 70th Ave., Denver 21, Colo. (Tel. HA 9-1561); Pacoima, Calif. (Tel. EM 6-8121)
Mgr.-Purch., Denver: William Hammond
Sr. Buyer, Denver: Lou Harder
Purch. Agent, Pacoima: Robert Meyerson
Mgr.-Sales, Pacoima: Robert Holzl
Chief Appl. Engr., Denver: R. Bruce Foster
MF, WN, PS, GS, GH, GE

SUPEREX ELECTRONICS CORP.
4-12 Radford Pl., Yonkers, N. Y. (Tel. YOnkers 5-6906)
Purch. Agent: D. Schulman
Asst. Purch. Agent: F. Gold
Sales Mgr.: Marvin L. Buchalter GS, GH, GE, TR

SUPERIOR AIR PRODUCTS CO.
132 Malvern St., Newark 5, N. J. (Tel. MArket 3-5715)
Chief Engr.: L. E. Putman GS, GH, R&D

SUPERIOR CABLE CORP.
Box 480-A, Hickory, N. C. (Tel. DI 5-4161)
Purch. Agents: Manley Fuller & Brock Johnson
V. P.-Sales: J. H. Bowman GS, GH, GE, TR

SUPERIOR CARBON PRODUCTS, INC.
9115 George Ave., Cleveland 5, O. (Tel. VUlcan 3-4880)
Purch. Agent: Raymond H. Kling
Sales Mgr.: Ted Liebert MF, WN, PS, GS, GE, TR

SUPERIOR ELECTRIC CO., THE
83 Laurel St., Bristol, Conn. (Tel. LUdlow 2-9561)
Purch. Agent: A. Greger
Sales Mgr.: J. Louden GS, TS

SUPERIOR ELECTRONICS CORP.
208 Piaget Ave., Clifton, N. J. (Tel. GRegory 2-2500)
Purch. Agent: Donald Mabey
Asst. Purch. Agent: John Witterschein
Sales Mgr.: Michael Hogan GE, R&D

SUPERIOR FLUX & MFG. CO., THE
1536 St. Clair Ave., Cleveland 14, O. (Tel. SUperior 1-9373)
Pres.: Robert R. Mendelson
V. P.-Purch.: R. E. Handler MF, MM

SUPERIOR PNEUMATIC & MFG., INC.
4758 Warner Rd., Cleveland 25, O. (Tel. BRoadway 1-1522)
V. P. & Gen. Mgr.: W. I. Krewson, Jr. GS

SUPERIOR SPINNING & STAMPING CO.
4057-63 Fitch Rd., Toledo 13, O. (Tel. GReenwood 2-2175)
Secy.: L. G. Avery
Pres.: W. H. Schomburg MM

SUPERIOR STEATITE & CERAMIC CORP.
83-91 W. Forest Ave., Englewood, N. J. (Tel. LOwell 8-4555)
Purch. Agent: T. H. Church MM

SUPERIOR TUBE CO.
Box 191, Norristown, Pa. (Tel. BRoadway 5-2070)
Dir.-Purch.: Elmer W. Hayes
Purch. Agent: Leroy Buckwalter
Buyers: Ralph Esser, Stanley Fretz, William Schlutz, Gerald Claycomb
Gen. Mgr.-Sales: Henry B. Brown MM

SURFACE COMBUSTION CORP.
2375 Dorr St., Toledo 1, Ohio

SURPRENANT MFG. CO.
172 Sterling St., Clinton, Mass. (Tel. 2180)
Gen. Mgr.: G. E. Forsberg
Sales: P. V. Tessier
MF, WN, PS, GS, GH, GE, TS, TR

SWAN RUBBER CO.
436 E. Mansfield St., Bucyrus, Ohio (Tel. 3-1015)
Purch. Agent: R. L. Stoneburner
Asst. Purch. Agent: T. W. Painter
Gen. Sales Mgr.: H. A. Loewy GS

SWARTWOUT CO., THE
P. O. Box 2468, Cleveland 12, Ohio (Tel. IVanhoe 1-0780)
Dir.-Sales: John Weber

SWAYNE, ROBINSON & CO.
200 Main St., Richmond, Ind. (Tel. 2-4071)
Purch. Agent: Jo Sickmann
V. P.-Sales: C. K. Robinson, Jr. MF, GS, MM

SWEDLOW INC.
6986 Bandini Blvd., Los Angeles, Calif.; 394 N. Meridian Rd., Youngstown, Ohio (Tel. RAymond 3-3211)
Dir.-Purch.: R. H. Affeld
Buyer: J. Ruth
Dir.-Contracts: W. H. Face MM, R&D

B. K. SWEENEY MFG. CO.
6300 E. 44th Ave., Denver 16, Colo. (Tel. FLorida 5-2355)
Purch. Agent: E. Salwasser
Pres.: John F. Sweeney
V. P.-Sales: A. C. Linburg GS, TS, R&D

SWISS JEWEL CO.
Lafayette Bldg., Philadelphia 6, Pa. (Tel. WA 5-1990)
Purch.: P. N. Steel, Jr.
Sales Mgr.: W. W. Woolford MM

SWITCHCRAFT, INC.
5555 N. Elston Ave., Chicago, Ill. (Tel.

SPring 4-1515)
Purch.: Bjorn Hestad
Sales: W. L. Larson GS, GE, TS, TR

SYLVANIA ELECTRIC PRODUCTS INC., CHEMICAL & METALLURGICAL DIV.
P. O. Box 70, Towanda, Pa. (Tel. ANdrew 5-2121)
Purch. Agent: T. R. Coyle
Buyers: W. F. Heatwole & D. D. Stalford
Gen. Sales Mgr.: R. Beatty MM

SYLVANIA ELECTRIC PRODUCTS INC., ELECTRONIC TUBES-REC. TUBES DIV.
Emporium, Pa. (Tel. EMporium 301)
Purch. Agent: James M. Parish
Gen. Sales Mgr.: D. W. Gunn, 1740 Broadway, New York, N. Y. (Tel. JU 6-2424)

SYLVANIA ELECTRIC PRODUCTS INC., PARTS DIV.
Warren, Pa. (Tel. WArren 3220)
Purch. Agent: Robert F. Marlin
Gen. Sales Mgr.: Fred A. Martin MM

SYLVANIA ELECTRIC PRODUCTS INC., SEMICONDUCTOR DIV.
Woburn, Mass. (Tel. WOburn 2-3500)
Purch. Agent: John Taylor
Gen. Sales Mgr.: Ernest Ulm MM, R&D

SYLVANIA ELECTRIC PRODUCTS INC., SPECIAL TUBE OPERATIONS
500 Evelyn Ave., Mt. View, Calif. (Tel. YOrkshire 8-6211)
Purch. Agent: A. F. Beazel
Mktg. Mgr.: Thomas D. Fuller, 1891 E. Third St., Williamsport, Pa. (Tel. WIlliamsport 3-4691)
Dir.-Purch.: Edward J. Millen
Buyer: Fred Andrews GE, TR, R&D

SYLVANIA ELECTRIC PRODUCTS INC., SYLVANIA ELECTRONIC TUBES DIV.
Seneca Falls, N. Y. (Tel. LOgan 8-5881)
Purch. Agent: Glen W. Victory
Gen. Sales Mgr.: D. W. Gunn, 1740 Broadway, New York, N. Y. (JU 6-2424) MM, R&D

SYLVANIA ELECTRONIC SYSTEMS, DIV.-SYLVANIA ELECTRIC PRODUCTS INC.
100 1st Ave., Waltham, Mass. (Tel. TWinbrook 3-9200)
Purch. Agent-Waltham Labs.: W. L. Hanson
Purch. Agent-Buffalo Opns.: C. A. Rae (Tel. Buffalo, N. Y.-VIctoria 7100)
Purch. Agent-Williamsport Systems Plant: D. E. O'Shea (Tel. Williamsport, Pa.-WIlliamsport 3-4641)
Purch. Agent-Mountain View Opns.: W. A. Janes (Tel. Mountain View, Calif.-YOrkshire 8-0051)
Dir.-Customer Relations, Sylvania Electronic Systems: J. H. Brewster, III (Tel. New York, N. Y.-JUdson 6-2424) MF, GS, GE, GH, TS, TR

SYNTRON CO.
859 Lexington Ave., Homer City, Pa. (Tel. GRidley 9-8011)
Purch. Agent: S. A. Dick
V. P.-Sales: D. G. Black
MF, WN, PS, GS, GH, GE, TR

SYSTEMS INCORPORATED
P. O. Box 7726, 2326 Diversified Way, Orlando, Fla. (Tel. GArden 4-6538)
Purch. Agent: B. B. Moss
Pres.: S. M. Kaplan GE, CO, TS, TR, R&D

SYSTEMS LABS. CORP.
14852 Ventura Blvd., Sherman Oaks, Calif. (Tel. STate 9-0501)
Purch. Agent: Arthur Peterson
Corp. Secy.: A. J. F. Clement R&D

SYSTRON CORP.
950 Galindo St., Concord, Calif. (Tel. MUlberry 2-3650)
Purch. Agent: Mrs. Doris Torpacka
Dir.-Sales: James R. Cunningham GS, GH, CO, TS

TA MFG. CORP.
4607 Alger St., Los Angeles 39, Calif. (Tel. CHapman 5-5768)
Purch. Agent: R. E. Felton
V. P.-Sales: R. Clyde Jordan GH, TS

T-C DIV., DYNA-EMPIRE, INC.
1075 Stewart Ave., Garden City, L. I., N. Y. (Tel. PIoneer 1-2700)
Purch. Agent: Charles Biasi
Sales: John J. Nargi PS, GS, CO, TS

TKM ELECTRIC CORP.
820 Linden Ave., Rochester 10, N. Y. (Tel. LUdlow 6-8000)
Purch. Agent: R. A. Taylor
Pres.: A. B. Treman

TACTAIR VALVE DIV.-AIRCRAFT PRODUCTS CO.
400 Church Rd., Bridgeport, Pa. (Tel. BRoadway 5-1000)
Purch. Agent: T. M. Clemmency
Sales Mgr.: Frank Higgins GS, GH, GE, CO, TS

TAFT-PEIRCE MFG. CO., THE
32 Mechanic Ave., Woonsocket, R. I. (Tel. POplar 2-1000)
Purch. Agent: A. M. Robinson
Gen. Sales Mgr.: W. F. Carney

TALCO ENGRG. CO., THE
2685 State St., Hamden, Conn. (Tel. ATwater 8-1634)
Purch. Agent: F. DeMarco
Buyer: D. Pantera
Dir.-Sales: A. E. Ehlenberger
MF, WN, PS, GS, GH, GE

TALK-A-PHONE CO.
1512 S. Pulaski Rd., Chicago 23, Ill. (Tel. LAwndale 1-8414)
Sales Mgr.: Dan F. Kagan GS

TALLEY CORP., THE
101 Highway & Conejo Rd., Newbury Park, Calif. (Tel. HUdson 5-2121)
Purch. Agent: Meade Davis
V. P.-Sales: Norman Nicholson
Business Mgr.: Wayne Wilson
Pres.: F. H. Talley
V. P.-Engrg.: W. J. Forcey
GS, GH, GE, CO, TS, TR, R&D

TALLY REGISTER CORP.
5300 14th Ave., N. W., Seattle 77, Wash. (Tel. SUnset 4-5500)
Purch. Agent: W. I. Stephenson
V. P.-Sales: M. R. Dilling GS, TS, R&D

TALON, INC.
626 Arch St., Meadville, Pa. (Tel. 4-1281)
Mgr.-Purch.: F. V. Hanaway
Asst. Mgr.-Purch.: A. R. Young
V. P.-Sales: R. M. Evans

TAMAR ELECTRONICS, INC.
1805 Colorado Ave., Santa Monica, Calif. (Tel. EX 3-9834)
Mgr.-Materiel: Walt Smith
V. P. & Gen. Mgr.: Vern Landis GS, CO, TR, R&D

TANSITOR ELECTRONICS, INC.
West Road, Bennington, Vt. (Tel. 5473–5474)
V. P.-Purch.: Gilbert E. Green
Pres.-Sales: Alfred F. Torrisi R&D

TAP-A-LINE MFG. CO.
31 S. W. 5th Court, P. O. Box 563, Pompano Beach, Fla. (Tel. WE 3-3262)
Sales: Robert W. McFarlin

TAPCO GROUP, THOMPSON RAMO WOOLDRIDGE INC.
23555 Euclid Ave., Cleveland 17, Ohio (Tel. IV 1-7500)
Dir.-Purch.: K. C. White
Dir.-Sales & Mktg.: J. H. Shaffer
MF, WN, PS, GS, GH, CO, TR, MM, R&D

TAPE CABLE CORP.
790 Linden Ave., Rochester 10, N. Y. (Tel. LUdlow 6-0330)
Purch: G. E. Smith
Sales Mgr.: Bob Smith MM

TAPERED AIR PRODUCTS CORP.
10890 Stanford Ave., Lynwood, Calif. (Tel. NEvada 6-9851)
Purch. Agent: Walter Fagen
Sales Mgr.: James I. Carpenter MF, PS

TASK CORP.
1009 E. Vermont Ave., Anaheim, Calif. (Tel. PRospect 4-3100)
Purch. Agent: Carl M. Berg
Sales Mgr.: Joe A. Fryer, Jr. TR, R&D

W. A. TAYLOR & CO.
7300 York Rd., Baltimore 4, Md. (Tel. VAlley 3-1573)
Gen. Purch. & Sales Mgr.: J. A. Lambrecht
Asst. Purch. Mgr.: J. C. Kirk, Jr.
Chief Chemist: F. R. McCrumb TS

TAYLOR DEVICES, INC.
188 Main St., N. Tonawanda, N. Y. (Tel. JAckson 3603)
Pres: Paul H. Taylor
V. P.-Sales: Charles S. Shanks MF, GH, R&D

TAYLOR ELECTRIC INC.
15400 Dale Ave., Detroit 23, Mich. (Tel. KEnwood 5-2500)
Sales: Bruce R. D. Taylor GS, GE, CO, TS, TR

TAYLOR FIBRE CO.
Norristown, Pa. (Tel. GLendale 2-2811)
Purch. Agent: H. Fifer
V. P.-Sales: E. H. DaCosta MM

TAYLOR-WINFIELD CORP.
1052 Mahoning Ave., N. W., Warren, Ohio (Tel. EX 2-2521)
Purch. Agent: H. Martin
Asst. Purch. Agent: G. Walchak
Chief Sales Engr.: J. H. Cooper MM

TECHALLOY CO. INC.
Route 113, Rahns, Pa. (Tel. Norristown HUxley 9-7211)
Pres.: D. M. Schmid MF, WN, PS

TECHNICAL APPARATUS BUILDERS
109 Liberty St., New York 6, N. Y. (Tel. REctor 2-6249)
Purch. Agent: R. A. Lyons
Sales Mgr.: R. Bernstein GS, GH, CO, TS

TECHNICAL APPLIANCE CORP.
1 Taco St., Sherburne, N. Y. (Tel. SHerburne 7-2211)
V. P. & Dir.-Purch.: Harold Senkel
V. P. & Dir.-Sales: Tore Lundahl
Asst. V. P. & Sales Mgr., Commercial Div.: Albert K. Fowler TR

TECHNICAL SERVICE CORP.
1404 W. Market St., Louisville 3, Ky. (Tel. JUniper 7-8476)
Buyer: L. H. Jones
Sales Dept.: Mary Rose Snead GS

TECHNICAL TAPE CORP.
240 North Ave., New Rochelle, N. Y. (Tel. BEverly 5-1000)
V. P. Dir.-Disbursements: Max Pearce
Purch. Agent: B. McGuire
Asst. Purch. Agent: Mrs. D. Steinen
V. P. Gen. Sales Mgr.: M. I. Stool

TECHNI-CAST CORP.
11455 Check Ave., Lynwood, Calif. (Tel. NEvada 6-0678)
Purch. & Sales Mgr.: Jack Seibert GS, GH

TECHNIQUE ASSOCIATES DIV., DUNCAN ELECTRIC CO., INC.
1413 North Cornell Ave., Indianapolis 2, Ind. (Tel. MElrose 1-4904)
Purch.: T. K. Millholland
Sales: Edward C. Finlay TS, R&D

TECHNITROL ENGRG. CO.
1952 E. Allegheny Ave., Philadelphia 34, Pa. (Tel. GArfield 6-9105)
Purch. Agent: James H. Kennedy
Buyer: David Adam
V. P.-Sales: T. Kite Sharpless GS, GE

TECHNOGRAPH PRINTED ELECTRONICS, INC.
920 Northwest Blvd., Winston-Salem, N. C. (Tel. PArk 3-0767)
Purch. Agent: R. G. Vance TR

TECHNOLOGY INSTRUMENT CORP.
531 Main St., Acton, Mass., (Tel. COlonial 3-7711)
Purch. Agent: David M. Donaldson
V. P.-Sales: H. L. Gray, Jr.
GH, GS, GE, CO, TS, R&D

TECHRON CORP.
81 Washington St., Boston 8, Mass. (Tel. CApitol 7-7484)
Purch. Agent: Thomas Fahey GE

ROLAND TEINER CO. INC.
134 Tremont St., Everett 49, Mass. (Tel. DUnkirk 7-7800)
Purch.: R. Tenagilia
V. P.-Sales: K. Sowdon MF, WN, MM, R&D

TEINER ENGRG. CORP.
115 Madison St., Malden, Mass. (Tel. DA 4-7440)
Purch. Agent: Mrs. Berg
V. P.-Sales: Eric Sandquist
Plant Mgr.: Edward J. McKeon MF, WN, MM, R&D

TELECHROME MFG. CORP.
28 Ranick Dr., Amityville, N. Y. (Tel. LIncoln 1-3600)
Purch. Agent: B. Trimboli
V. P.-Sales: H. Charles Riker TR

TELE COIL CO.
2733 Saunders St., Camden 5, N. J. (Tel. EMerson 5-7528)
Pres.: Samuel Feldman GE, TS, TR, R&D

TELECTRO INDUSTRIES CORP.
35-16 37th St., Long Island City 1, N. Y. (Tel. YEllowstone 2-8600)

CODING

Missile Frame	MF
Warhead & Nose Cone	WN
Propulsion System	PS
Ground Support	GS
Ground Handling	GH
Guidance Equipment	GE
Checkout Equipment	CO
Test Equipment	TS
Tracking & Telemetering	TR
Research & Development	R&D
Materials & Metals	MM

Purch. Agent: M. I. Ross
Pres.: Harry Sussman

TELE-DYNAMICS INC.
5000 Parkside Ave., Philadelphia 31, Pa. (Tel. TRinity 8-3000)
Purch. Agent: Walter S. Longbotton
Buyers: Howard S. Messick, William A. Porch, Philip Marder
Dir.-Mktg.: Edward H. Rosen
GS, GH, GE, CO, TS, TR, R&D

TELEFLEX INC.
N. Wales, Pa. (Tel. OXbow 9-4861)
Purch. Agent: T. Walton
Chief Buyer: W. Taylor
Sales: M. C. C. Chisholm, Jr. GS, GH

TELEMETER MAGNETICS, INC.
2245 Pontius Ave., Los Angeles 64, Calif. (Tel. BRadshaw 2-0991)
Purch. Agent: J. O. Hoffman
Buyers: Leonard Stevenson, Irene Taraba, Frank Butteri
V. P.-Sales: Trude C. Taylor R&D

TELERAD MFG. CORP.
1440 Broadway, New York 18, N. Y. (Tel. BRyant 9-0892)
Purch. Agent: B. Buffone
Expediter: C. Young
Pres.: Charles George GS, GE, TS, TR

TELETRONICS LABORATORY INC.
54 Kinkel St., Westbury, L. I., N. Y. (Tel. EDgewood 3-1027)
Purch. Mgr.: Art Zink
Sales Mgr.: Raymond L. Johnson GS, TS, R&D

TELEVISION UTILITIES CORP.
112-33 Colonial Ave., Corona 68, L. I., N. Y. (Tel. TW 8-1000)
Gen. Mgr.: Abe E. Siegel
V. P.-Sales: Miles Breger TR, R&D

TELEVISION ZOOMAR CORP.
500 Fifth Ave., New York, N. Y. (Tel. BRyant 9-5835)
Sales Mgr.: Bill Pegler

TEL-INSTRUMENT ELECTRONICS CORP.
728 Garden St., Carlstadt, N. J. (Tel. WEbster 3-1600)
Purch. Agent: A. J. Paret
Sales Mgr.: E. W. Brinkerhoff GS, CO, TS, TR

TEL-LABS., INC.
1050 Second St., Manchester, N. H. (Tel. NA 3-5711)
Gen. Mgr.: J. Henry Izart GE, TS, TR

TELONIC INDUSTRIES, INC.
75 N. 2nd Ave., Beech Grove, Ind. (Tel. STate 6-9239)
Purch. Agent: Jean Robinett
Engrg. Sales Dir.: C. R. Wainwright (Laguna Beach, Calif., Tel. HYatt 4-7581) GS

TEMCO AIRCRAFT CORP.
P. O. Box 6191, Dallas 22, Tex. (Tel. BRoadway 6-7111)
Materiel Mgr.: C. D. Collier
Purch. Agent: J. A. Pendleton
Mgr. Contacts & Sales: R. L. Lewis
MF, WN, PS, GS, GH, GE, CO, TS, TR, MM, R&D

TEMPERATURE ENGRG. CORP.
1700 Union Landing Rd., Riverton, N. J. (Tel. TAlmadar 9-3880)
Pres: S. H. Perlman
Sales Mgr.: Norman Bustein

TEMPIL CORP.
132 W. 22nd St., New York 11, N. Y. (Tel. ORegon 5-6610)
Purch. Agent: M. Lacks
Dir.-Sales: M. Lefkoe
Order Supvr.: E. Lee TS, MM, R&D

TEMPLETON, KENLY & CO.
16th & Gardner Rd., Broadview, Ill. (Tel. AUstin 7-0695)
Buyer: Donald Bertaut GS

TEMPO INSTRUMENT INC.
Commercial St., P. O. Box 338, Hicksville, N. Y. (Tel. OVerbrook 1-2280)
Purch. Agent: George J. Sbordone
Sales Mgr.: F. Meyer WN, GS, GE, CO, TS, TR

G. H. TENNANT CO.
701 N. Lilac Dr., Minneapolis 22, Minn. (Tel. LI 5-3771)
Purch. Agent: Gilbert J. Kehr
V. P.-Mktg. & Engrg.: Orville C. Hognander
Sales Mgr.: Joseph T. Lyon GS, GH

TENNEY ENGRG., INC.
1090 Springfield Rd., Union, N. J. (Tel. MUrdock 6-7870)
Purch. Agent: Robert Hak
V. P.-Sales: Robert H. Brown GS, TS

TENSITRON, INC.
P. O. Box 185, Harvard, Mass. (Tel. GLadstone 6-3511)
Pres. & Gen. Mgr.: Dr. Erwin J. Saxl TS, R&D

TENSOLITE INSULATED WIRE CO., INC.
West Main St., Tarrytown, N. Y. (Tel. Medford 1-2300)
Dir.-Purch.: D. G. Keough
Purch. Asst.: G. O'Neill
V. P.-Sales: G. W. Heller

TENSOR ELECTRIC DEVELOPMENT CO., INC.
1873 Eastern Pkwy., Brooklyn 33, N. Y. (Tel. HY 5-9200)
Purch. Agent: Mrs. P. McFarland
MF, PS, GS, GH, GE, TS, TR

TEPRO ELECTRIC CORP.
408A Burke Bldg., 5 St. Paul St., Rochester 4, N. Y. (Tel. BAker 5-0478)
Pres.: M. A. Thom

TERADO CO.
1068 Raymond Ave., St. Paul 8, Minn. (Tel. MIdway 6-2514)
Gen. Mgr.: D. G. Munson
Purch.: George Huff
Sales Mgr.: John J. Kaul GS, GE

TERMINAL RADIO CORP.
85 Cortlandt St., New York, N. Y. (Tel. WOrth 4-3311)
Purch. Agents: M. Blumberg, R. Corenthal & M. Filler
V. P.-Sales: Frank Miller
PS, GS, GH, GE, CO, TS, TR

GEORGE A. TERRY CO.
356 S. Elmwood Ave., Buffalo 1, N. Y. (Tel. WA 0633)
Mgr.: George A. Terry
Sales Mgr.: Harold A. Dodge

TEXAS CAPACITOR CO., DIV.-K-C-K CORP.
922 S. 75th St., Houston, Tex. (Tel. WAlnut 6-5727)
Pres.: George S. Chaffin
Prod. Mgr.: Mrs. A. Holligan

TEXAS METAL & MFG. CO., INC.
6114 Forest Park Rd., Dallas, Tex. (Tel. FLeetwood 1-3771)
Purch. Agent: Don Hamilton
V. P.: George C. Kershaw GH, GS, R&D

TEXTRAN CORP.
P. O. Box 9207, 8500 Research Rd., Austin, Tex. (Tel. GL 3-8378)
Bus. Mgr.: George E. Strandtmann
V. P.-Sales: Charles Zablocki R&D

THAYER SCALE CORP.
1 Thayer Park, Pembroke, Mass. (Tel. TAylor 6-2373) GS, GH

THERM, INC.
Hudson St., Ithaca, N. Y. (Tel. Ithaca 4-9501)
V. P.-Purch.: John E. Paige
V. P.-Sales: Harry A. Davis, Jr.
V. P.-Research: Alfred Ritter PS, R&D

THERMAL AMERICAN FUSED QUARTZ CO., INC.
18-20 Salem St., Dover, N. J. (Tel. FOxcroft 6-2807)
Purch. Agent: R. Doormann
Sales Mgr.: John F. von Sternberg MF, PS

THERMAL REFRACTORIES CORP.
4501 Dell Ave., North Bergen, N. J. (Tel. UNion 5-1600)
Purch. Agent: W. C. Karsten
Sales: C. E. Nelson WN, PS, MM, R&D

THERMAL WIRE OF AMERICA
Keeler's Bay, South Hero, Vt. (Tel. 241)
Pres.: Horace W. Corbin, Jr.
Sales Mgr.: Michael G. Ziter WN, PS, GE

THERMAX WIRE CORP.
304 E. 45th St., New York 17, N. Y. (Tel. MUrray Hill 9-7120)
Purch. Dept.: R. W. Coombs
Buyer: J. May
Sales Mgr.: John E. Rattinger

THERMECH ENGRG. CORP.
1773 Lincoln Ave., Anaheim, Calif. (Tel. KEystone 3-3183)
Gen. Mgr.: C. P. Ripley
Sales Mgr.: R. L. Harris MF, PS, GS, GH, MM

THERMO ELECTRIC CO., INC.
109 5th St., Saddle Brook, N. J. (Tel. HUbbard 9-5800)
Treas.: J. P. McKeon
Purch. Agents: C. McColgan, A. Allee
Sales Mgr.: J. H. Collins GS, CO, TS, R&D

THERMO KING CORP.
314 W. 90th St., Minneapolis 20, Minn. (Tel. TUxedo 1-2601)
Dir.-Purch.: E. J. Brown
Mgr.-Govt. Sales: Miles Harvey GS

THERM-O-LAB CORP.
6940 Farmdale Ave., N. Hollywood, Calif. (Tel. STanley 7-7105)
Sales Dir.: Roy Smith
MF, PS, GS, GH, GE, CO, R&D

THERMOSEN INC.
375 Fairfield Ave., Stamford, Conn., (Tel. DAvis 5-1324)
Sales Mgr.: R. S. Schenck

THETA INSTRUMENT CORP.
48 Pine St., E. Paterson, N. J. (Tel. SWarthmore 7-7700)
Purch. Agent: Ralph Rinaldi
Sales Mgr.: Stanley Handelman GS, CO, TS

THIEBLOT AIRCRAFT CO., DIV.-VITRO CORP. OF AMERICA
Martinsburg, W. Va. (Tel. AMherst 3-3385)
Dir.-Purch.: Art Williams
V. P.-Sales: W. P. Maloney
MF, WN, PS, GS, GH, GE, CO, TS, TR

THIOKOL CHEMICAL CORP.
P. O. Box 27, Bristol, Pa. (Tel. WIndsor 6-9150)
Purch. Agent (Redstone Div.): J. Lutz, (Huntsville, Ala.)
Purch. Agent (Longhorn Div.): W. L. Teutsch (Marshall, Tex.)
Dept. Mgr. (Reaction Motors Div.): E. M. DeRome (Denville, N. J.)
Section Head (Elkton Div.): T. King (Elkton, Md.)
Dept. Head (Utah Div.): D. Young (Brigham City, Utah) PS, GS, GH, CO, TS, MM, R&D

THIOKOL CHEMICAL CORP., HUNTER-BRISTOL DIV.
P. O. Box 27, Bristol, Pa. (Tel. WIndsor 6-9150)
Asst. Gen Mgr.: Raymond R. Wiese
Mgr. Contracts & Sales: John W. Miller
PS, GS, GH, R&D

THIOKOL CHEMICAL CORP., REDSTONE DIV.
Huntsville, Ala. (Tel. JE 6-4411)
Purch. Agent: F. L. Quinn
Purch.: Joe Todd & Russ Fowler

THOMAS ELECTRONICS, INC.
118 Ninth St., Passaic, N. J. (Tel. GRegory 3-4040)
Mgr.-Purch.: Carl Tepel
Mgr. Special Product Sales: Peter V. Nuccio
GS, CO, TS

THOMAS INSTRUMENT CO.
41 Silver Rock, Phoenix, N. Y. (Tel. OWen 5-5134)
Sales & Prod. Mgr.: S. M. Thomas PS

THOMPSON ENGRG. CO., THE, MISSILE PRODUCTS DIV.
Box 2097, 22922 S. Normandie Ave., Torrance, Calif. (Tel. FAirfax 8-5315)
Mgr.-Purch.: David A. Anderson
Dir.-Sales: William A. Thompson GS, GH, R&D

H. I. THOMPSON FIBER GLASS CO.
1733 Cordova St., Los Angeles 7, Calif. (Tel. REpublic 3-9161)
Purch. Agent: Dean Welsh
Buyer: E. Titus
V. P.-Sales: W. E. Benke WN, MM, R&D

THOMPSON PRODUCTS, INC.
23555 Euclid Ave., Cleveland 17, O. (Tel. IVanhoe 1-7500)
Staff Dir.-Purch.: G. N. Hackett
V. P.-Sales: G. R. Moore

THOMPSON-BREMER & CO.
228 N. La Salle St., Chicago 1, Ill. (Tel. FRanklin 2-6858)
Sales Mgr.: Gail M. Rutledge MF, PS

THOMPSON-RAMO-WOOLDRIDGE PRODUCTS CO., THE
P. O. Box 90067, Airport Station, Los Angeles 45, Calif. (Tel. OSborne 4-5601)
Controller: Robert J. Barrett, Jr.
Dir.-Mktg.: Raymond E. Jacobson GS, CO, TS, R&D

THWING-ALBERT INSTRUMENT CO.
Penn St. & Pulaski Ave., Philadelphia 44, Pa. (Tel. GErmantown 8-5719)
Purch. Agent: Driscoll Nina
Treas.: Edward J. Albert
Prod. Mgr.: John Fachet TS

ARTHUR TICKLE ENGRG. WORKS, INC.
21 Delevan St., Brooklyn 31, N. Y. (Tel. MAin 5-4200)
Purch. Agent: Andrew Posser
Buyer: Frank Petito
Indsl. Sales Mgr.: Nicholas P. Harvey
MF, WN, PS

TIMES WIRE & CABLE CO., INC.
358 Hall Ave., Wallingford, Conn. (Tel. COlony 9-3381)
Purch.: Henry Dobris
V. P.-Sales: Lawrence J. DeGeorge
MF, PS, GS, GH, TS, TR

TIMKEN ROLLER BEARING CO., THE
1835 Deuber Ave., S. W., Canton, O. (Tel. GL 3-4511)
Dir.-Purch.: Paul Young
V. P.-Sales: P. J. Reeves **MF, PS, GH, GE, MM**

TINGSTOL CO.
1461 W. Grand Ave., Chicago 22, Ill. (Tel. CAnal 6-1520)
Purch. Agent: J. Machina
V. P.-Sales: John P. Zopp **GE**

TINNERMAN PRODUCTS, INC.
Dept. 16, P. O. Box 6688, Cleveland 1, O. (Tel. SHadyside 1-9300)
Dir.-Purch.: R. F. Merriam
Dir.-Sales: L. H. Flora **MF**

TINSLEY LABS., INC.
2526 Grove St., Berkeley, Calif. (Tel. THornwall 3-6836)
Purch. Agent: Robert J. Johnson
Pres: Harvey L. Morton **GE, TR, R&D**

TITAN METAL MFG. CO.
Bellefonte, Pa. (Tel. EL 5-4712) (Also Newark, Calif.)
V. P.-Purch.: M. J. Rothrock
Gen. Purch. Agent: B. R. Tingue
Tech. Asst. to Gen. Purch. Agent: R. H. Eiser
Purch. Agent-Raw Material: O. T. Lambert
V. P.-Sales: R. H. Lightner **MM**

TITANIUM METALS CORP. OF AMERICA
233 Broadway, New York 7, N. Y. (Tel. WOrth 4-7620)
Dir.-Mktg.: T. W. Lippert
Sales Mgr.: Robert S. Nycum **MF, WN, MM**

TITEFLEX, INC.
Hendee St., Springfield 4, Mass. (Tel. REpublic 9-5631)
Purch. Dir.: S. J. Souis
Buyers: R. Brennan, M. Raichelson
V. P.-Sales & Adv.: D. H. Arthur
PS, GS, GH, GE, R&D

TOBE DEUTSCHMANN CORP.
Providence Hwy., Norwood, Mass. (Tel. NOrwood 7-2620)
Purch. Agent: Henry P. Shopneck
Sales Mgr.: Thomas A. Crawford

TOCCO DIV., THE OHIO CRANKSHAFT CO.
3800 Harvard Ave., Cleveland 5, Ohio (Tel. DIamond 1-2300)
Dir.-Purch.: B. Seidel
Asst. Gen. Mgr.: L. S. Schweitzer

TOPATRON, INC.
942 E. Ojai Ave., Ojai, Calif., (Tel. MIlton 6-1600)
Purch. Agent: S. E. Brown
Sales Mgr.: L. H. Appleman **GS, CO, TS, R&D**

TOPFLIGHT CORP.
160 E. 9th Ave., York, Pa. (Tel. 8-1541)
Purch. Agent: R. O. Thomas
Sales Dir.: R. M. Dent **MF, PS**

TOPPER MFG. CO., INC.
147-12 Liberty Ave., Jamaica 35, N. Y. (Tel. AXtel 7-5742)
Sales Mgr.: Fred Greil **GE, MM**

TORIT MFG. CO.
292 Walnut St., St. Paul, Minn. (Tel. CApital 2-4419)
Purch. Agent: George Huna
V. P.-Sales: Frank Chase

C. W. TORNGREN CO., INC.
236 Pearl St., Somerville 45, Mass. (Tel. MOnument 6-3250)
Purch. Agent: Wm. DeCain
Dir.-Sales: Kenneth A. Casavant **MF, WN, PS, GS**

TORQUE CONTROLS INC.
825 E. Broadway, San Gabriel, Calif. (Tel. CUmberland 3-4182)
Purch. Agent: F. M. Sheehy **GS**

TORRINGTON CO., THE
59 Field St., Torrington, Conn. (Tel. HUnter 2-4441)
Dir.-Purch.: W. V. Viering
Sales Mgr.: R. G. O'Connell
MF, WN, PS, GS, GH, GE

TORRINGTON MFG. CO. INC., THE, SPECIALTY BLOWER DIV.
100 Franklin Drive, Torrington, Conn. (Tel. HUnter 2-4422)
Purch. Agent: R. J. Geiger
Sales: A. M. Wilczenski **GS, GH, CO, TS, TR**

TORSION BALANCE CO., THE
35 Monhegan St., Clifton, N. J. (Tel. GRegory 3-6900)
Purch. Agent: C. Wesley
Div. Sales Mgr.: E. H. Enberg **TS**

TORWICO ELECTRONICS, INC.
1090 Morris Ave., Union, N.J. (Tel. ELizabeth 4-5650)
Purch. Agent: H. G. Riche **GS, GE, TR, R&D**

TOWACO ELECTRONICS
Pine Brook Rd., Towaco, N.J. (Tel. DE 4-4443)
Pres.: Samuel I. Cory, Jr.

TOWER CONSTRUCTION CO.
2700 Hawkeye Drive, Sioux City, Iowa (Tel. 5-7653)
Purch. Agent: J. R. Edwards
Asst. Sales Mgr.: G. S. Chesen
Gen. Mgr.: C. A. Wright **GS, GH**

TOWER MFG. CORP.
158 Pine St., Providence, R.I. (Tel. GAspee 1-2061)
Gen. Mgr.: Louis J. Shatkin

***TOWNSEND CO., CHERRY RIVET DIV.**
1224 E. Delhi Rd., Santa Ana, Calif. (Tel. KI 5-5511)
Purch. Agent: Ralph E. Herndon
Buyer: Leroy F. Levers
Mgr., Aircrft Sales: John H. Roy **MF, WN, PS, MM**
*(See Page 36 for Advertisement)

TRAID CORP.
17136 Ventura Blvd., Encino, Calif. (Tel. STanley 3-3373)
Purch. Agent: Anthony De Marco
Merchandising: Mark MacIntosh **TS, TR**

TRAILMOBILE INC.
31st & Robertson Sts., Cincinnati 9, O. (Tel. REdwood 1-2323)
Dir.-Purch.: Wm. H. French
V. P.-Sales: Harry Eyler **GS, GH**

TRANE CO., THE
2nd & Cameron Ave., La Crosse, Wisc. (Tel. 2-8000)
V. P.-Purch.: R. H. Pearse
Exec. V. P.-Sales: Thomas Hancock
GS, GH, GE, TS, TR

TRANS ELECTRONICS, INC.
7349 Canoga Ave., Canoga Park, Calif. (Tel. DIamond 0-3334)
Purch. Agent: J. V. Ritenour
Dir.-Sales: William J. Miller **CO, TS**

TRANSCO PRODUCTS, INC.
12210 Nebraska Ave., Los Angeles 25, Calif. (Tel. BRadshaw 2-5687)
Purch.: Hugh P. Rice
Buyer: William Wookey
Sales: E. M. Cleland

TRANSDYNE CORP.
5815 57th Drive, Maspeth 78, N. Y. (Tel. TW 4-6681)
Dir.-Purch.: E. Braun **GS, GE, CO, TS**

TRANSFORMER DESIGN, INC. OF MILWAUKEE
7377 North 76th St., Milwaukee 18, Wisc. (Tel. FLagstone 3-8017)
Pres.: Howard S. Knopow
V. P.: Rubin B. Lesgold **GS, GE, TR, R&D**

TRANSFORMER SPECIALTY CO.
221 Rockhill Rd., Bala-Cynwyd, Pa. (Tel. MOhawk 4-5770)
Pres.: H. D. Hosier

TRANSISTOR ELECTRONICS CORP.
3357 Republic Ave., Minneapolis 26, Minn. (Tel. WEst 9-6754)
Dir.-Purch: Raymond P. Deeney
Sales Mgr.: R. C. Skoe **GE, CO, TS, TR**

TRANSITRON ELECTRONIC CORP.
168 Albion St., Wakefield, Mass. (Tel. CRystal 9-4500)
Purch. Agent: Ralph Young
Sales Mgr.: H. T. Neavitt **GE**

TRANSMARES CORP.
15 William St., New York 5, N. Y. (Tel. HAnover 2-6156)
V. P.: Alfons A. Jokob **TR**

TRANSONIC, INC.
808 16th St., Bakersfield, Calif. (Tel. FA 7-5701)
Dir.-Purch.: Harvey A. Lipp
Gen. Sales Mgr.: C. P. Cushway **GS, GE, TS, TR**

TRANS-SIL CORP.
55 Honeck Street, Englewood, N. J. (Tel. LOwell 7-1720)
Gen. Mgr. Purch.: L. J. Grennell
Sales Mgr.: I. Weinstein **WN, GS, CO, TS**

TRANS-SONICS, INC.
P. O. Box 328, Lexington 73, Mass. (Tel. BRowning 2-1000)
Purch. Agent: Robert L. Meader
Gen. Sales Mgr.: Sheldon W. Kennedy **GS, TS, TR**

TRANSUE & WILLIAMS STEEL FORGING CORP.
1300 Ely, Alliance, O. (Tel. Talbot 1-5741)
Purch. Agent: H. C. Martin
Asst. Purch. Agent: R. H. Cost
Sales Mgr.-Stamping Div.: C. J. Brunn
Sales Mgr.-Forge Div.: J. W. Ament **MF, WN, PS**

TRANS-WESTERN ELECTRONICS
P. O. Box 1473 Ventura, Calif. (Tel. MIller 2-4219)
Purch. Agent: G. Reins
Sales Mgr.: M. M. Neer **TS**

TRANTER MFG., INC.
735 E. Hazel, Lansing, Mich. (Tel. IV 4-4531)
Purch. Agent: M. C. Nolen
Sales Mgr.: S. J. Stowell **SP, MM**

TRESCO, INC.
3824 Terrace St., Philadelphia 28, Pa. (Tel. IV 3-1383)
Purch. Agent: Stanley Fisher
Sales: Stan Auerbach **MF, PS, GS, GE, TS, TR**

TRIAD TRANSFORMER CORP.
4055 Redwood Ave., Venice, Calif. (Tel. EXmont 7-2145)
Purch. Agent: G. L. Howard
Sales Mgr.-Jobber: Ernest Clover
Sales Mgr.-Industrial: Edmund Shimbel
GE, CO, TS, TR

TRICRAFT PRODUCTS CORP.
1124 W. Newport Ave., Chicago 13, Ill. (Tel. WEllington 5-5383)
Sales Mgr.: Bud Nylen
Gen. Mgr.: E. A. Goncoe **GS, GH, GE, TS, TR**

TRI-DEX CO.
P. O. Box 1207, Lindsay, Calif. (Tel. LIndsay 2-4051)
K. B. Howard
MF, WN, PS, GS, GH, GE, CO, TS, TR

TRIMOUNT INSTRUMENT CO.
3119 W. Lake St., Chicago 12, Ill. (Tel. NEvada 2-3747)
Purch.: F. R. Arens
Sales Mgr.: D. E. Haines **GS, TS**

TRINDL PRODUCTS, LTD.
1807-11 S. Clark St., Chicago 16, Ill. (Tel. VIctory 2-7716)
V. P.-Purch.: Joseph H. Trindl, Jr. **PS, GS**

TRIO CHEMICAL WORKS, INC.
341 Scholes St., Brooklyn 6, N. Y. (Tel. HYacinth 7-3595)
Purch.: Harold Blank
Sales: M. M. Blank **MF, WN, PS, GS, GH**

TRIO LABORATORIES, INC.
Plainview, L. I., N. Y. (Tel. OVerbrook 1-0400)
Purch. Agent: Thomas M. Curry
Sales Mgr.: Jay S. Salz **GS, TS**

TRION, INC.
1000 Island Ave., McKees Rocks, Pa. (Tel. FEderal 1-3300)
Purch. Agent: John L. Hergenroeder
Dir.-Sales: R. R. Pryor

TRIONICS CORP.
P. O. Box 548, Madison 1, Wisc. (Tel. CEdar 8-2616)
Treas. & Sr. Chem.: Stanley E. Rohowetz
Pres.: Robert L. Slater, Jr. **MM, R&D**

TRIPLETT & BARTON, INC.
831 N. Lake St., P. O. Box 3128, Burbank, Calif. (Tel. VIctorie 9-1291)
Asst. Gen. Mgr.-Purch.: Chas. W. Sexton
Pres. & Gen. Mgr.-Sales: Tom A. Triplett
TS, R&D

TRIPLETT ELECTRICAL INSTRUMENT CO.
Harmon Rd., Bluffton, Ohio (Tel. 323-W)
Purch. Agent: P. W. Stauffer
V. P.-Sales: N. A. Triplett

TRI-POINT PLASTICS INC.
175 I. U. Willets Rd., Albertson, L. I., N. Y. (Tel.

CODING

Missile Frame	MF
Warhead & Nose Cone	WN
Propulsion System	PS
Ground Support	GS
Ground Handling	GH
Guidance Equipment	GE
Checkout Equipment	CO
Test Equipment	TS
Tracking & Telemetering	TR
Research & Development	R&D
Materials & Metals	MM

MAyfair 1-5800)
Purch. Agent: Sid Kipnes
Dir.-Sales: Pat Ruggieri
PS, GS, GE, TS, TR, R&D

TROMBETTA SOLENOID CORP.
329 N. Milwaukee St., Milwaukee, Wisc. (Tel. BRoadway 1-8347)
Gen. Mgr.: Panfilo Trombetta **GH**

TRU-CONNECTOR CORP.
416 Union St., Lynn, Mass., (Tel. LY 8-9379)
Gen. Mgr.: James J. O'Neil, Jr.

TRUE ALLOYS INC.
284 S. Summit St., Detroit 9, Mich. (Tel. VInewood 2-8686)
Pres.: J. P. Carritte **MF, WN, PS, GE, MM**

TUBE DISTRIBUTORS CO., INC.
1415 Kellum Place, Garden City, N. Y. (Tel. Pioneer 7-5000)
Head-Purch.: Sam Warren
Purch. Agent: Sam J. Sinacore
Sr. Buyer: Albert Salis
Sales Mgr.: David Reeves
Sales Prom. Mgr.: Joseph D. Shipman **MM**

TUBE METHODS INC.
Depot & Rambo Sts., Bridgeport, Montg. Co., Pa. (Tel. BRoadway 9-7700)
Exec. V. P.: Paul V. Fly
Sales Mgr.: John E. MacNamara
PS, GS, GE, TS, TR, MM

TUBE REDUCING CORP.
520 Main Ave., Wallington, N. J. (Tel. PRescott 7-3700)
Purch. Agent: E. P. McMahon
V. P.-Sales: R. L. Tannehill **MF, WN, PS, MM**

TUBE-TURNS DIV., CHEMETRON CORP.
224 E. Broadway, Louisville, Ky. (Tel. JUniper 7-7551)
Purch. Agent: R. J. Dilger
Buyer: Robert Love
Sales Mgr.: Charles F. Morris **WN, PS, GH**

TUCSON INSTRUMENT CORP.
1050 E. Valencia Rd., P. O. Box 11247, Tucson 2, Ariz. (Tel. MAin 2-1092)
Pres.: F. R. Perier
V. P.-Sales: Louis A. Wilson, Jr.
MF, WN, PS, GS, GH, GE, CO, TS, TR

TURBO MACHINE CO.
840 W. Main St., Lansdale, Pa. (Tel. ULysses 5-5131)
Purch. Agent: Alfred S. Karcewski **WN, MM**

TURBO PRODUCTS, INC.
12177 Montague St., Pacoima, Calif. (Tel. EMpire 9-5252)
Purch. Agent: Howard Wade
V. P.-Sales & Engrg.: J. H. Overholser
MF, PS, GS, GH, MM

TURCO PRODUCTS, INC.
6135 S. Central Ave., Los Angeles, Calif. (Tel. ADams 2-6111)
Dir.-Purch.: A. H. Dekker
Los Angeles Purch.: D. W. Eckroad
V. P.-Mktg.: Dan T. Buist
MF, WN, PS, GS, GH, CO, TS

TWENTY-FIRST CENTURY ELECTRONICS, INC.
6227 Columbus Ave., P. O. Box 2326, Riverside, Calif. (Tel. OVerland 8-0780)
Purch. Agent: J. W. MacDonald
V. P.-Sales: C. R. Springer **GE, R&D**

TWIGG INDUSTRIES
1827 E. National, Brazil, Ind. (Tel. 2293)
Purch. Agent: B. Siwik
Buyer: J. Bateman
Sales Mgr.: W. L. Hahn **MF, WN, PS, GS, GH**

TWIN COACH CO., AIRCRAFT-MISSILES
Buffalo 25, N. Y. (Tel. PLaza 5150)
Materials Mgr.: E. E. Rhoads
V. P.-Contracts Admin.: G. R. Hecht
MF, GS, GH, R&D

E. F. TWOMEY CO., INC.
728 W. 10th Pl., Los Angeles 15, Calif. (Tel. RI 9-9451)
Secy.-Treas.: E. F. Twomey, Jr. **MF, GS**

TYPHOON AIR CONDITIONING CO., DIV.-HUPP CORP.
505 Carroll St., Brooklyn 15, N. Y. (Tel. ULster 8-0800)
Purch. Agent: George W. Weinberg
Asst. Purch. Agent: T. E. Krawetz
V. P.-Sales: John A. Gilbreath **MF, GS, GE**

UCINITE CO., THE, DIV.-UNITED-CARR FASTENER CORP.
459 Watertown St., Newtonville 60, Mass. (Tel. LAsall 7-8400)
Purch. Agent: T. J. Costello
V. P.-Sales: G. V. Sweetnam
MF, WN, PS, GS, GH, GE, TR

UEHLING INSTRUMENT CO.
473 Getty Ave., Paterson, N. J. (Tel. SHerwood 2-8710)
Purch. Agent: J. W. Riccobene
Sales Mgr.: P. F. Riccobene

GEORGE ULANET CO.
413 Market St., Newark 5, N. J. (Tel. MArket 2-4876)
Sales: H. Ulanet

ULLMAN DEVICES CORP.
Danbury Rd., Ridgefield, Conn. (Tel. Idlewood 8-6577)

ULTRA ELECTROFORMING & MFG. CO.
110 Cedar Ave., Pitman, N. J. (Tel. LUther 9-7666)
Treas.: E. P. Carter **MM**

ULTRADYNE, INC.
2624 San Mateo, N. E., Albuquerque, N. M. (Tel. AMherst 8-2431)
Mgr.-Tech. Sales: Edward L. Amonette **TR, R&D**

***ULTRA-VIOLET PRODUCTS, INC.**
5114 Walnut Grove Ave., San Gabriel, Calif. (Tel. CUmberland 3-3193)
Factory Supt.: Melvin D. Hershey
Sales Mgr.: T. S. Warren
MF, WN, PS, GS, CO, TS, TR
*(See Page 79 for Advertisement)

UNDERWOOD ELECTRIC & MFG. CO., INC.
4926 W. Grand Ave., Chicago, Ill. (Tel. NAtional 2-9450)
Purch.: Edward J. Meier
Sales: Robert G. Futterer

UNGAR ELECTRIC TOOLS, INC.
4101 Redwood Ave., Los Angeles 66, Calif. (Tel. EXmont 8-5718)
Purch. Mgr.: Frank Hurd
Sales Mgr.: William L. Nehrenz **MM**

UNIFLOW VALVE CORP.
19 Quine St., Cranford, N. J. (Tel. BRidge 6-8300)
Dir.-Purch.: Mary Hummel
Dir.-Sales: Kenneth Grosse **PS, R&D**

UNIFORM TUBES, INC.
Level Rd., Collegeville, Pa. (Tel. HUxley 9-7276)
Purch. Agent: Gordon Hattersley
Sales Mgr.: D. T. MacNair **MM**

UNIMAX SWITCH DIV., THE W. L. MAXSON CORP.
Ives Rd., Wallingford, Conn. (Tel. COlony 9-8701)
Purch. Agent: J. Osias
Sales Mgr.: J. Martinez **GE**

UNION ASBESTOS & RUBBER CO.
1111 W. Perry St., Bloomington, Ill. (Tel. 3-8081)
Purch. Agent: L. Vicha
Sales Mgr.: E. T. Plummer **MM, MF, WN, PS, TR**

UNION CARBIDE METALS CO., DIV.-UNION CARBIDE CORP.
30 E. 42nd St., New York 17, N. Y. **MM**

UNION SWITCH & SIGNAL, DIV.-WESTINGHOUSE AIR BRAKE CO.
Braddock Ave., Pittsburgh 18, Pa. (Tel. CHurchill 2-5000)
Mgr.-Purch.: H. I. McKeever
Sr. Buyer: C. S. Poxon
Supvr.-Purch. Research: R. J. Cook
Mgr.-Gen. Apparatus: P. K. Eckhardt
PS, GS, GE, CO, TS, TR

UNISON PRODUCTS, INC.
705 W. Savidge St., Spring Lake, Mich. (Tel. VIking 2-1349)
Buyer: M. Bakels
Sales Mgr.: Raymond Berwald **GE, TR**

UNIT CRANE & SHOVEL CORP.
6411 W. Burnham St., Milwaukee, Wisc. (Tel. Mitchell 5-8840)
Asst. to Pres. & Works Mgr.: A. B. Py
Purch. Agent: W. F. Ellingson
V. P.-Sales: A. R. Corbett
Sales Mgr.: J. Lenahan **GH**

UNIT PROCESS ASSEMBLIES, INC.
61 E. 4th St., New York 3, N. Y. (Tel. SPring 7-1398)
Purch.: C. Cirilli
Sales Mgr.: S. U. Lieber **TS**

UNITED AIRCRAFT PRODUCTS, INC.
1116 Bolander Ave., Dayton, O. (Tel. BAldwin 4-3841)
Dir.-Purch.: John Shroyer
Asst. V. P.-Contractual Engrg. Mgr.: F. A. Ryan
GS, GH, MM, R&D

UNITED CARBON PRODUCTS CO.
1318 N. Madison St., Bay City, Mich. (Tel. TWinbrook 3-4575)
Purch. Agent: M. D. Sordyl
Sales Mgr.: E. J. Musinski **MM**

UNITED CONTROL CORP.
4540 Union Bay Pl., Seattle 5, Wash. (Tel. LAkeview 5-9200)
Purch. Dir.: Martin K. Lilleberg
Asst. Purch. Dir.: Hugh LaVille
Engrg. Sales Mgr.: Robert L. Hancock
MF, PS, GS, GH, GE, CO, TS, TR

UNITED ELECTRIC CONTROLS CO.
85 School St., Watertown, Mass. (Tel. Walnut 6-1000)
V. P.-Purch.: G. McNally
Purch. Agent: R. Rando
Asst. Purch. Agent: M. Tutunjian
PS, GS, GH, GE, TS, R&D

UNITED ELECTRODYNAMICS, INC.
200 Allendale Rd., Pasadena, Calif. (Tel. SY 9-7161)
Purch. Agent: E. H. Lemke
Buyers: W. G. Martin, C. D. Morrison
Sales Mgr.: Frank A. Fleck **CO, TS, TR, R&D**

UNITED MFG. CO., THE
5250 Dobeckmun Ave., Cleveland 2, O. (Tel. OLympic 1-6310)
Purch. Agent: Harold L. Murphy
Sales Mgr.: W. R. Albrecht
MF, WN, PS, GS, GH, GE, TS, TR

UNITED MFG. CO. DIV., THE W. L. MAXSON CORP.
41 Haig St., Hamden 14, Conn. (Tel. New Haven-CH 8-4491)
Purch. Agent: C. W. Redmond
V. P.-Sales: V. A. Stancliff **GS, CO, TS**

UNITED MINERAL & CHEMICAL CORP.
16 Hudson St., New York 13, N. Y. (Tel. Beekman 3-8870)
Purch. Agent: Terry D. Koncelik
Sales: Herbert M. Rosenthal **MF, PS, GS, GE, TR**

UNITED PLATING WORKS
4118 N. Mingo Rd., Tulsa, Okla. (Tel. TEmple 5-4683)
Purch.: S. A. Bergman
Sales: Meredith L. Sutton **MM**

UNITED SHOE MACHINERY CORP.
140 Federal St., Boston 7, Mass. (Tel. LIberty 2-9100)
Mgr.-Purch. Dept.: H. F. Pfaff
Purch.: R. J. Carroll, George E. Bowen & E. McCaul
V. P.-Sales: C. R. Todd **MF, WN, PS, GS**

UNITED SHOE MACHINERY CORP., ORDNANCE CORP.
Balch St., Beverly, Mass. (Tel. WAlker 2-0160)
Mgr.-Ordnance Dept.: O. Hall

UNITED SMELTING & ALUMINUM CO., INC.
P. O. Box 1910, New Haven, Conn. (Tel. MA 4-2181)
Gen. Supt.: F. A. Merliss
Exec. V. P.-Sales: Milton E. Rosenthal **MM**

U. S. A.C. TRANSPORT, INC.
457 W. Fort St., Detroit, Mich. (Tel. WOodward 3-7913)
Dir.-Cust. Rel.-Sales: J. Wade Jacobson
MF, WN, PS, GS, GH, GE, CO, TS, TR, MM, R&D

U. S. COMPONENTS INC.
454 E. 148th St., New York 55, N. Y. (Tel. CYpress 2-6525)
V. P.-Purch.: B. A. Jackson
Sales: H. Nalbantian
PS, GS, GH, GE, CO, TS, TR

U. S. ELECTRICAL TOOL CO.
3640 Llewellyn St., Cincinnati, Ohio (Tel. Mulberry 1-3410)
V. P.-Purch.: G. D. Behlen
Dir.-Sales: P. D. Schneider

U. S. FIBER & PLASTICS CORP.
Union St., Stirling, N. J. (Tel. Millington 7-0514)
Purch. Agent: Earle Doll
Sales Mgr.: Robert A. Goodfellow

U. S. FLEXIBLE METALLIC TUBING CO.
454 E. Third St., Los Angeles, Calif. (Tel. MAdison 4-2121)
Purch.: E. Almonor; E. D. Mohring
Sales Mgr.: Wm. H. Tice **PS, GS, GH**

U. S. GAUGE DIV.,-AMERICAN MACHINE & METALS, INC.
Sellersville, Pa. (Tel. ALpine 7-6531)
Dir.-Proc.: Clayton Kirkpatrick
Purch. Agent: M. H. Blackwell
Mgr.-Aircraft Sales: David A. Winer
PS, GE, CO, TS, TR

U. S. GEAR CORP.
81 Bay State Rd., Wakefield, Mass. (Tel. CRystal

6-4900)
Engr.-Purch.: A. P. Cotreau
Purch. Expediting: Alex Camara
Sales Mgr.: David M. Abbot **GS, GE, TR, R&D**

U. S. HAMMERED PISTON RING CO., INC.
Rail Road Ave., Stirling, N. J. (Tel. MIllington 7-0100)
V. P.-Purch.: A. A. Wenzel
Purch.: R. Bossmann & A. Thoms **MF, WN, PS, GS**

U. S. INDUSTRIES, INC.
250 Park Ave., New York, N. Y. (Tel. Oxford 7-4141)
Sales: T. Petridas
MF, GS, GH, GE, CO, TS, R&D

U. S. RELAY CO.
717 N. Coney Ave., Azusa, Calif. (Tel. CUmberland 3-8241 or EDgewood 4-8206)
Pres.: Louis Fox
V. P.-Purch.: Harold Fox
Purch. Agent: S. J. Astrican
Sales Mgr.: Lyle D. Bunce
MF, PS, GS, GH, GE, CO, TS, TR, R&D

U. S. SCIENCE CORP., DIV.-TOPP INDUSTRIES, INC.
5221 W. 102nd St., Los Angeles, Calif. (Tel. Spring 6-0450)
Dir.-Purch.: W. B. Miller
Asst. Purch. Agent: W. J. Chanter
Buyers: J. D. Blake, W. J. Steffy, G. H. Wood
Mgr.-Cust. Rel.: M. A. Pahlavan **GS, GH, GE, TR**

U. S. SEMICONDUCTOR PRODUCTS, INC.
3540 W. Osborn Rd., Phoenix, Arizona (Tel. AP 8-5591)
Purch. Agent: Raymond W. DeLor
V. P.-Sales: Joseph C. Worth **GS, GE, CO, TS**

U. S. STEEL SUPPLY DIV., UNITED STATES STEEL CORP.
208 S. LaSalle St., Chicago, Ill, (Tel. CEntral 6-9200)
Mgr.-Material Cont.: J. E. Grant
V. P.-Sales: K. P. Rindfleisch **MM**

UNITED STATES CHEMICAL MILLING CORP.
1700 Rosecrans Ave., Manhattan Beach, Calif. (Tel. ORegon 8-4041)
Purch. Agents: R. V. McCulloch, J. H. Vincent
V. P.-Contracts: M. L. Johnson
MF, WN, GS, GH, MM, R&D

UNITED STATES DYNAMICS CORP.
1250 Columbus Ave., Boston 20, Mass. (Tel. HI 5-3850)
Pres.: Walter E. Strimling
Sales Mgr.: Burton D. Lenk **GH, GE, TR**

UNITED STATES PLYWOOD CORP.
55 W. 44th St., New York 36, N. Y. (Tel. MU 2-1900) **GS**

UNITED STATES RADIUM CORP.
P. O. Box 246, Morristown, N. J. (Tel. JEfferson 9-4000)
Purch. Agent: R. Van Epps
Asst. Purch. Agent: D. Weaver
V. P.-Sales: C. W. Wallhausen
MF, WN, GH, GE, CO, TS, TR

UNITED STATES RUBBER CO.
1230 Ave. of the Americas, New York, N. Y. (Tel. CIrcle 7-5000)
Dir.-Purch.: S. W. MacKenzie
Asst. Dir.-Purch.: W. H. Spratling
Govt. Dept.-Sales: Douglas K. Bonn, Mgr., 1700 K Street, N. W., Washington, D. C. **PS, MM, R&D**

UNITED STATES STEEL CORP.
525 William Penn Pl., Pittsburgh 30, Pa.
Media Suprvsr.: A. F. Berliner **MF, PS**

UNITED STATES TIME CORP.
Waterbury 20, Conn. (Tel. Plaza 8-2444)
Eastern Sales Mgr.: H. D. Armstrong, 375 Park Ave., New York 22, N. Y. (Tel. PLaza 9-5665)
Western Sales Mgr.: R. Lancaster, 346 Tejon Pl., Palos Verdes Estates, Calif. (Tel. FRontier 5-9526) **GE, TR, R&D**

UNITED STATES VARNISH CO.
P. O. Box 2, #625 Franklin Ave., Hasbrouck Hts., N. J. (Tel. ATlas 8-0373)
Purch.: Henry G. Hose

UNITED SUPPLY CO.
3676 S. Broadway Pl., Los Angeles 7, Calif. (Tel. ADams 3-4384)
Purch. Agent: Harry L. Guss
Sales Mgr.: Morris C. Guss
MF, WN, PS, GS, GH, GE, MM

UNITED TRANSFORMER CORP.
150 Varick St., New York 13, N. Y. (Tel. ALgonquin 5-3500)
Purch. Agent: J. Kramer
Sales Mgr.: H. Russell **GS, GE, CO, TS, TR**

UNITED WIRE & SUPPLE CORP.
1497 Elmwood Ave., Providence, R. I. (Tel. STuart 1-3000)
Gen. Sales Mgr.: J. G. Landrigan **MM**

UNITED-CARR FASTENER CORP.
31 Ames St., Cambridge 42, Mass. (Tel. KIrkland 7-4900)
Purch. Agent: F. J. Ross
Asst. Purch. Agent: David Erb
Sales: Arthur W. Rice, Jr.
MF, WN, PS, GS, GH, GE, TR

UNIVERSAL CIRCUIT CONTROLS CORP.
3610 Oakton St., Skokie, Ill. (Tel. ORchard 5-2620)
Chief Engr. & Gen. Mgr.: Sander B. Friedman
Sales Mgr.: Earl R. Sayre **GE, TR**

UNIVERSAL DRAFTING MACHINE CORP.
7960 Lorain Ave., Cleveland 2, O. (Tel. OL 1-4747)
Purch. Agent: R. F. Barnes
Asst. Purch. Agent: D. DeVito
V. P.-Sales: S. W. Hoover

UNIVERSAL DYNAMICS CORP.
P. O. Box 9814, 1441 N. 19th St., Arlington 9, Va. (Tel. JAckson 5-4541)
Purch. Agent: David L. Watson
Sales Mgr.: Kirk L. Burns **GS, GH, TS**

UNIVERSAL ELECTRIC CO.
300 E. Main St., Owosso, Mich. (Tel. SAratoga 5-7174)
Dir.-Purch.: Gerald Hoddy
Dir.-Sales: A. E. Kerscher **PS**

UNIVERSAL ELECTRONICS CO.
1720 22nd St., Santa Monica, Calif. (Tel. EXbrook 3-7707)
Purch. Agent: P. A. McGreevey
Sales Mgr.: Richard Landis (Tel. CRestview 4-8185) **PS, GS, GE**

UNIVERSAL MFG. CO., INC.
1168 Grove St., Irvington 11, N. J. (Tel. ESsex 4-9800)
Sales Engr.: Anthony O. Vicari

UNIVERSAL METAL PRODUCTS INC.
331 Vineland Ave., Puente, Calif. (Tel. EDgewood 6-4561)
Purch. Agent: M. G. Miller
Sales Mgr.: O. J. Miller **MF, GS, GH**

UNIVERSAL MICROPHONE CO.
Box 55, Inglewood, Calif. (Tel. EX 8-6898)
Purch. Agent: D. Harrison
Sales Mgr.: R. Harrison **GS**

UNIVERSAL MOULDED PRODUCTS CORP.
Commonwealth Ave., Bristol, Va. (Tel. NO 9-1181)
Purch. Agent: J. G. Barnes
Dir.-Sales: C. L. Meteer
MF, WN, PS, GS, MM, R&D

UNIVERSAL TOROID COIL WINDING, INC.
171 Coit St., Irvington 11, N. J. (Tel. ESsex 4-9800)
Purch. Agent: William E. Arends
Sales Engr.: Anthony O. Vicari

UNIVERSAL TRANSISTOR PRODUCTS CORP.
17 Brooklyn Ave., Westbury, N. Y. (Tel. EDgewood 3-3304)
Purch. Agent: I. R. Zeller
GS, GH, GE, CO, TS, TR

UNIVERSAL UNLIMITED, INC.
Pratt Oval, Glen Cove, N. Y. (Tel. ORiole 6-4600)
Purch. Agent: Henry J. Belmont
Sales Mgr.: Mark L. Steiner **MF, GE, TS, TR**

UNIVERSAL-CYCLOPS STEEL CORP.
Bridgeville, Pa. (Tel. CAnal 1-8000)
Plant Mgr.-Purch.: F. E. Garrah
V. P.-Sales: W. J. Long **MM**

UNIVERSITY LOUDSPEAKERS, INC.
80 S. Kensico Ave., White Plains, N. Y. (Tel. WHite Plains 6-7700)
Purch. Agent: Rocco Di Rico
Sales Mgr.: Charles Ray **GS, R&D**

UTICA DROP FORGE & TOOL DIV.-KELSEY HAYES CO.
2415 Whitesboro St., Utica 4, N. Y. (Tel. 5-6411)
Purch. Agent: Russell Jones
Asst. Purch. Agent: E. Kern
Mgr.-Missile Div.-Sales: W. K. Norris
MF, WN, PS, GS

UTRAD CORP.
305 N. Briant St., Huntington, Ind. (Tel. 4088 & 4089)
Purch. Agent: Norbert A. Miller
Pres.-Sales: A. R. Kaufman

VACAP CORP.
1905 Summit Ave., Union City, N. J. (Tel. UNion 7-6699)
V. P.-Purch. & Sales: L. Dolinko **GH, TR**

VACUUM METALS CORP., DIV.-CRUCIBLE STEEL CO. OF AMERICA
P. O. Box 977, Syracuse 1, N. Y. (Tel. HOward 8-2571)
Dir.-Purch.: R. O. Bridge, Crucible Steel Co. of America, Oliver Bldg., Pittsburgh 30, Pa. (Tel. ATlantic 1-3800)
Head-Purch. Dept.—Syracuse: F. G. Hefti
Sales Mgr.-Syracuse: F. J. Coates **MF, WN, PS**

VACUUM RESEARCH CO.
420 Market St., San Francisco 11, Calif. (Tel. YUkon 2-3565)
Purch.: H. F. Perezone, 1929 Williams St., San Leandro, Calif. (Tel. LOckhaven 8-1252)
Sales: Larry Wright, San Francisco
PS, GS, GH, GE

VACUUM TUBE PRODUCTS, DIV.-HUGHES AIRCRAFT CO.
2020 Short St., Oceanside, Calif. (Tel. SAratoga 2-7648)
Purch. Agent: L. J. Huking
Mgr.-Sales: J. J. Sutherland **GS, GH, R&D**

VALCOR ENGRG. CORP.
Carnegie Ave., Kenilworth, N. J. (Tel. CHestnut 5-1665)
Purch. Agent: M. A. Kreitchman
Buyer: Anthony Pias
Gen. Sales Mgr.: Murray Maslow
PS, GS, GH, GE, CO

VALPEY CRYSTAL CORP.
1244 Highland St., Holliston, Mass. (Tel. GArden 9-4851)
V. P.-Purch.: T. S. Valpey, Jr.
Sales Engr.: Nelson B. Piper, Jr. **GE, TS, TR**

VAN DER HORST CORP. OF AMERICA
1645 East State Rd., Olean, N. Y. (Tel. 3173)
Purch. Agent: A. B. Roop
Sales Mgr.: Frank Jorstad **WN, MM, R&D**

VAN KEUREN CO.
176 Waltham St., Watertown 72, Mass. (Tel. WAtertown 4-4394)
Pres.: R. T. Parsons
Sales Mgr.: William Mark

VAN ZELM ASSOCIATES, INC.
7803 Pulaski Hwy., Baltimore 6, Md. (Tel. MUrdock 7-1414)
Purch. Agent: Mr. Robert Henning
Business Mgr.-Sales: Gerald McBride **GS, GH, R&D**

VANADIUM CORP. OF AMERICA
420 Lexington Ave., New York, N. Y. (Tel. LE 2-3580)
Dir.-Purch.: F. W. Thomas
V. P.: R. H. Filsinger, Jr. **MM**

VANADIUM-ALLOYS STEEL CO.
Latrobe, Pa. (Tel. KEystone 7-5551)
Purch. Agent: Lewis M. Potter
Asst. Purch. Agent: Alex B. Smith
V. P.-Sales: R. Burns George **MM**

VANGUARD ELECTRONICS CO.
3384 Motor Ave., Los Angeles 34, Calif. (Tel. TExas 0-7344)
Pres.-Purch.: Simon A. Golbert
Sales Mgr.: Fred Finaly **GS, GE, TS**

VAP-AIR AERONAUTICAL PRODUCTS DIV., VAPOR HEATING CORP.
6444 Howard St., Chicago, Ill. (Tel. NEwcastle 1-9200)
Purch. Agent: Robert W. Currer
Buyers: Ronald R. Krenek & Frank Slapak
V. P.-Sales: L. H. Gillick **GS, R&D**

VAPOR BLAST MFG. CO.
3025 W. Atkinson Ave., Milwaukee 9, Wis. (Tel. CUster 3-6500)
Purch. Agent: A. Odehnal
Sales Mgr.: H. F. Patin
MF, WN, GS, GH, GE, TS, MM, R&D

VARD INC.
2981 E. Colorado St., Pasadena, Calif. (Tel. SYcamore 6-9281)
Purch. Mgr.: Gordon Withall
Buyers: Jim Gilbert, John Allen

CODING

Missile Frame	MF
Warhead & Nose Cone	WN
Propulsion System	PS
Ground Support	GS
Ground Handling	GH
Guidance Equipment	GE
Checkout Equipment	CO
Test Equipment	TS
Tracking & Telemetering	TR
Research & Development	R&D
Materials & Metals	MM

Sales Administrator: G. L. Gillespie
Exec. V. P.-Sales: Phillip R. Heim

VARFLEX CORP.
512 W. Court St., Rome, N. Y. (Tel. 7200)
Purch.: Merrick Drummond
Sales: J. H. Finnegan **MF, WN, PS**

VARIAN ASSOCIATES
611 Hansen Way, Palo Alto, Calif. (Tel. DAvenport 6-4000)
Chief-Purch.: Hamilton Shutts
Sales Mgr.: W. M. Silhavy, Tube Div.
Sales Mgr.: Emery Rogers, Instrument Div.
Sales Mgr.: Paul I. Corbell, Radiation Div.
GE, CO, TS, TR, R&D

VARIETY AIRCRAFT CORP.
2901 W. 3rd St., Dayton, Ohio (Tel. AM 3-2664)
Gen. Mgr.: C. A. Coppock
Ch. Engr.: W. H. Kuntz **MF, GS, GH**

VARI-L CO., INC.
432 Fairfield Ave., Stamford, Conn. (Tel. Fireside 8-0091)
Pres.: J. L. Kiser **GS, TS, TR**

VARO MFG. CO.
2201 Walnut St., Garland, Tex. (Tel. BRoadway 6-6141)
Purch. Agent: Brad Riggs
Buyer: Al Armstrong
Sales Mgr.: J. R. Gilmer
GS, GE, CO, TS, TR, R&D

VASCOLOY-RAMET CORP.
800 Market St., Waukegan, Ill. (Tel. ON 2-5220)
Purch. Agent: L. P. Paluska
Sales Mgr.: B. F. Naden **MM**

VECTOR ELECTRONIC CO.
1100 Flower St., Glendale 1, Calif. (Tel. CHapman 5-1076)
Purch. Agent: Jerry Strickland
Gen. Mgr.: R. R. Scoville **MF, GE, TS, TR**

VEECO VACUUM CORP.
86 Denton Ave., New Hyde Park, L. I., N. Y. (Tel. PIoneer 6-1161)
Purch. Agent: E. Potter
V. P.-Sales: A. Nerken
PS, GS, GH, GE, CO, TS, TR

VEEDER-ROOT INC.
70 Sargeant St., Hartford 2, Conn. (Tel. JAckson 7-7201)
Purch. Agent: R. I. Bond
Sales Mgr.: G. L. Logan **CO, TS, TR**

VEET INDUSTRIES
25753 Groesbeck Hwy., E. Detroit, Mich. (Tel. PRescott 6-3000)
Purch. Agent: A. Stewart
Sales Mgr.: W. Clyde Nav **PS**

VEMALINE PRODUCTS CO.
P. O. Box 222, Hawthorne, N. J. (Tel. MUlberry 4-4688)
Purch. Agent: Wm. Venema
MF, WN, PS, GS, GH, GE, CO, TR

VENDORLATOR MFG. CO.
2550 S. Railroad Ave., Fresno, Calif. (Tel. AMhert 6-9401)
Purch. Agent: O. J. McMillin
Asst. Purch. Agent: Howard Henry
Sales: E. E. Brown (West Coast), Bert Schwarz (East Coast) **GH**

VERNISTAT DIV., THE PERKIN-ELMER CORP.
772 Main Ave., Norwalk, Conn. (Tel. VIctor 7-2441)
Sales Mgr.: Lionel Robbins **GS, GE, TS**

VERSON ALLSTEEL PRESS CO.
9300 Kenwood Ave., Chicago 19, Ill. (Tel. REgent 4-8200)
Purch. Agent: H. Wiggins **MF, WN, MM, R&D**

VICKERS INC., DIV.-SPERRY RAND
Administrative & Engrg. Ctr., Detroit 32, Mich. (Tel. Royal Oak—LIberty 9-1122)
Gen. Purch. Agent: R. V. Sharkey
Gen. Sales Mgr.: J. T. Burns
GS, GH, GE, CO, TS, R&D

VICKERS INC., MARINE & ORDNANCE DEPT., MACHINERY HYDRAULICS DIV.
172 E. Aurora St., Meriden, Conn., (Tel. PL 6-3684)
Purch. Agent: Harold Carberry
Sales Mgr.: R. J. Mitchell

VICON CORP.
1369 Industrial Rd., San Carlos, Calif. (Tel. LYtell 3-8003)
Purch. Agent: D. Scofield
V. P.-Sales: H. Johnston **GS, TS, TR**

VICTOR ADDING MACHINE CO.
3900 N. Rockwell St., Chicago 18, Ill. (Tel. KEystone 9-8210)
Dir. Purch.: L. E. Covey
Purch. Agent: J. E. Jasch
V. P.-Sales: A. F. Bakewell
Buyers: G. A. Moeller, Richard Bergman, John Mickey
V. P.-Electronic Sales: A. C. Buehler, Jr.
GS, GH, CO, TS, R&D

VICTOR MFG. & GASKET CO.
5750 W. Roosevelt Rd., Chicago 50, Ill. (Tel. AUstin 7-6180)
Gen. Purch. Agent: Harold G. North
V. P.-Indsl. Sales: Albert J. Aukers **MF, PS**

VICTOR R. F. & MICROWAVE CO.
36 W. Water St., Wakefield, Mass. (Tel. CRystal 9-4472)
Gen. Mgr.: George P. Victor **TS, MM, R&D**

VICTORY ENGRG. CORP.
Springfield Rd., Union, N. J. (Tel. MUrdock 8-7150)
Purch. Agent: R. W. Blimm
Sales: W. B. Huston **PS, GS, GE, CO, TS, TR**

VIDEO INSTRUMENTS CO., INC.
3002 Pennsylvania Ave., Santa Monica, Calif. (Tel. EXbrook 3-1244)
Purch. Agent: Richard Brommer
Prod. Mgr.: Bob Cobery
V. P. & Gen. Mgr.: Peter Pohl

VIDEON ELECTRONIC CORP.
902 E. Michigan St., Indianapolis 2, Ind. (Tel. MElrose 6-5461)
Purch. Agent: Charles Gallagher
Sales Mgr.: Arthur J. Schultz **GE, TS, TR**

VILTER MFG. CO., THE
2217 S. First St., Milwaukee 7, Wisc. (Tel. SHeridan 4-0111)
V. P.-Purch.: L. E. Loos
V. P.-Sales: A. O. Vogel **R&D**

VINCO CORP.
9111 Schaefer Hwy., Detroit 28, Mich. (Tel. WEbster 3-4350)
Purch. Agent: E. L. Camen
Buyer: E. St. Onge
Asst. Buyer: J. Davis
Asst. Sales Mgr.: J. J. Kessel **GS, GE, TS**

VINSON MFG. CO. INC.
8044 Woodley Ave., Van Nuys, Calif. (Tel. STanley 3-3510)
Factory Mgr.: F. Gallagher
Sales: William A. Goodman
MF, WN, PS, GS, GH, GE, TS, TR

VIRGINIA ELECTRONICS CO., INC.
River Rd. & B& O R. R., Washington 16, D. C. (Tel. OLiver 4-6680)
Purch. Agent: Edward Schwartz
V. P.-Sales: Millard Nachtwey
GE, CO, TS, TR, R&D

VIRGINIA PLAK CO.
270 Madison Ave., New York 16, N. Y. (Tel. MUrray Hill 3-9516)
Gen. Mgr.: S. N. Weis **MF, WN, GE, CO, TS, TR**

VITRO CORP. OF AMERICA
261 Madison Ave., New York, N. Y. (Tel. MUrray Hill 2-5700)
Purch. Agent: E. S. Fowler
Exec. V. P.-Sales: W. A. Bain **GS, GH, TR, R&D**

VITRO LABS.
200 Pleasant Valley Way, West Orange, N. J. (Tel. REdwood 1-3400)
Procurement Mgr.: J. E. Eaton
New Proj. Mgr.-Sales: W. L. Slover
GS, GH, CO, TS, TR, MM, R&D

VLCHEK TOOL CO., THE
3001 E. 87th St., Cleveland 4, O. (Tel. GA 1-2480)
Purch. Agent: F. J. Tkach
V. P.-Sales: L. F. Storie **MF**

VOI-SHAN MFG. CO., DIV.-PHEOLL MFG. CO.
8463 Higuera St., Culver City, Calif. (Tel. TExas 0-5321)
Purch. Agent: Miss Glory Fields **MF**

VORAC CO., THE
147 Meadow Rd., Rutherford, N. J. (Tel. WEbster 3-1000)
Dir.-Purch.: Robert Geist
MF, WN, PS, GS, GE, TS

VOUGHT CO.
8907 Melrose Ave., Los Angeles 46, Calif.
Mailing Add.: P. O. Box 1350, Beverly Hills, Calif. (Tel. CRestview 6-1131)
Contract Officer: W. E. Lanctot
Mgr.-Sales: A. D. Fraser **GS, GE, TR**

WJZ GAGE & TOOL CORP.
Hyde Park, N. Y. (Tel. CApital 9-2929)
Sales Mgr.: Jed Daly

W-S FITTINGS WORKS, FORGE & FITTINGS DIV., H. K. PORTER CO. INC.
P. O. Box #95 Aldene Rd., Dept. 359, Roselle, N. J. (Tel. CH 1-1600)
Purch. Agent: Walter Lewis
Sales Mgr.: James H. Wyres **PS, GH, CO, TS, R&D**

WAAGE ELECTRIC, INC.
720 Colfax Ave., Kenilworth, N. J. (Tel. CHestnut 5-9363)
Curtis Frantz **GS**

WACLINE, INC.
35 S. St. Clair St., Dayton 2, O. (Tel. BAldwin 8-5161)
Purch. Agent: R. G. Swanson
V. P.-Sales: M. E. Goll **PS, GS, GE, CO, TS, TR**

H. A. WAGNER CO.
14707 Keswick St., Van Nuys, Calif. (Tel. ST 3-1260)

WAIMET ALLOYS CO., DIV.-CONSOLIDATED FOUNDRIES AND MFG. CORP.
1999 Guoin St., Detroit, Mich. (Tel. LOrain 7-1545)
Tech. Dir.: W. P. James
Purch. Agent: Opal Koonter
Sales Mgr.: R. J. Metzler **MM**

WAKEFIELD ENGRG. CO.
P. O. Box 471, Coeur d'Alene, Idaho (Tel. MUrray 5-5541)
V. P.: D. Bresnan **GS**

WAKMANN WATCH CO. INC.
15 W. 47th St., New York, N. Y. (Tel. JU 6-1750)
V. P.: Jack Waller **GS, GH, GE, CO, TS, R&D**

WALBAR MACHINE PRODUCTS INC.
74 Maple St., Stoneham, Mass. (Tel. Stoneham 6-3035)
Purch. Agent: James E. Gallagher
Sales Mgr.: T. J. Caveney **PS**

WALDES KOHINOOR, INC.
47-16 Austel Place, Long Island City 1, N. Y. (Tel. EXeter 2-3100)
Purch. Agent: H. M. VanCleaf
V. P.-Sales: George Waldes
Asst. to V. P.-Sales: Gordon A. Moos **MM**

WALDOM ELECTRONICS INC.
4625 W. 53rd St., Chicago 32, Ill. (Tel. LUdlow 5-1212) **MF, WN, PS, GS, GH, GE, CO, TS, TR**

WALDORF ELECTRONICS. DIV.-F.C. HUYCK & SONS
Park Ave., Huntington, L. I., N. Y. (Tel. HA 7-5800)
Purch. Dir.: Nick Schwetz
Buyers: Al Fritz, Donald Greenberg, Rudulf Hoch
Dir.-Sales: Norbert E. Andres, Jr.
GS, GE, CO, TS, TR, R&D

WALDORF FLUID SYSTEMS, DIV.-F. C. HUYCK & SONS
Wolf Hill Rd., Huntington Station, L. I., N. Y. (Tel. HAmilton 7-7500)
Dir.-Purch.: Nicholas Schwetz
Sr. Buyer: Edward M. Stockus
Sub-Contract Buyer: Harald V. Isacksen
WN, PS, GS, GH, CO, TS, R&D

WALES STRIPPIT INC., UNIT OF HOUDAILLE INDUSTRIES, INC.
Buell Rd., Akron, N. Y. (Tel. 9441)
Purch. Agent: George MacFayden
Gen. Sales Mgr.: Russell A. Johnson **MF, GS**

WALKIRT CO.
141 W. Hazel St., Inglewood 3, Calif. (Tel. ORegon 8-4814)
Purch.: L. Wilgus
Gen. Mgr.-Sales: Wes L. Kirchoff
GS, GE, CO, TS, TR

P. WALL MFG. CO.
Erie St., Grove City, Pa. (Tel. 910)
Purch. Agent: Paul Northcott
V. P.-Sales: M. A. Silverman **GS, GH**

***WALL COLMONOY CORP., STAINLESS PROCESSING DIV.**
19345 John R St., Detroit 3, Mich. (Tel. TWinbrook 3-3800)
Office Mgr.: D. Hunter
Sales Mgr.: F. Cruse **MF, WN, PS**
*(See Page 72 for Advertisement)

WALL TUBE & METAL PRODUCTS CO.
P. O. Box 330, Newport, Tenn. (Tel. 2391)
Purch. Agent: James P. Masters
V. P. & Gen. Sales Mgr.: Frank L. Dempsey **MM**

WALLACE & TIERNAN INC.
25 Main St., Belleville 9, N. J. (Tel. PLymouth 9-8000)
Purch. Agent: I. Gordon
Asst. Purch. Agent: T. A. Moore
V. P.-Sales: T. T. Quigley **CO, TR, R&D**

WALLINGFORD STEEL CO.
Valley St., Wallingford, Conn. (Tel. COlony 9-3361)

Purch. Agent: D. Norton Williams
Asst. Purch. Agent: William Dennison
V. P.-Chg. Sales: G. J. Griffin **MF, PS, MM**

WALTHAM ELECTRONICS CORP.
751 Main St., Waltham 54, Mass. (Tel. TWinbrook 4-6048)
Purch. Agent: Irving Kadesh **TS, TR, R&D**

WALTHAM ENGRG. CORP., SUB.-WALTHAM PRECISION INSTRUMENT CO.
221 Crescent St., Waltham 54, Mass. (Tel. TWinbrook 3-4000)
V. P.-Sales: Fred Kann

WALTHAM HOROLOGICAL CORP.
395 Lynnway, Lynn, Mass. (Tel. LY 8-4750)
Purch. Agent: Eugene Decareau
Sales Dept.: E. J. Arnold

WALTHAM PRECISION INSTRUMENT CO.
221 Crescent St., Waltham, Mass. (Tel. TWinbrook 3-4000)
Purch. Agent: Donald Lyons
Pres.: Louis R. Ripley
Gen. Sales Mgr.: Fred M. Burmann **GE, R&D**

WALTHAM SCREW CO.
77 Rumford Ave., Waltham 54, Mass. (Tel. TWinbrook 3-5830)
Purch. Agent: Lyman Viles **MF, WN, PS, MM**

WALWORTH CO.
750 3rd Ave., New York 17, N. Y.

WALWORTH CO., ELECTRONICS DIV.
89 Union St., Mineola, L. I., N. Y. (Tel. Pioneer 2-1010) **GE, TR**

WANG LABS., INC.
37 Hurley St., Cambridge 41, Mass. (Tel. UNiversity 4-8380)
Pres.: A. Wang **R&D**

WARNER ELECTRIC BRAKE & CLUTCH CO.
Beloit, Wisc., (Tel. Dunkirk 9-2211)
Purch. Mgr.: Hugh Kays
V. P.-Sales: N. K. Anderson **MM**

WARREN COMPONENTS, DIV.-ELTRONICS, INC.
S. Irvine St., Warren, Pa. (Tel. 4630)
Purch. Agent: Richard Swanson
Material Control: Harry Anderson
Sales Mgr.: MacBain Sears

WARREN TRANSFORMER CO., INC.
103 Warren St., Tunkhannock, Pa. (Tel. TErrace 6-8411)
Gen. Mgr.: G. W. Maslin **MF, GS, GE, TS, TR**

WARREN WIRE CO.
Pownal, Vt. (Tel. VA 3-7321); 1601 Chestnut St., Alhambra, Calif. (Tel. ATlantic 9-5081)
Purch.: John Barber
V. P.-Sales: F. W. Kunzelmann **MM**

WASHINGTON ALUMINUM CO., INC.
Pennsylvania RR & Knecht Ave., Baltimore 29, Md. (Tel. CIrcle 2-1000)
Purch. Agent: Bruner Dicus
V. P.-Sales: Robert S. Sanford **MF, GH, GE, TR, R&D**

WASHINGTON MACHINE & TOOL WORKS, INC.
13111 Wayzata Blvd., Minneapolis, Minn. (Tel. Liberty 5-5611)
Purch. Agent: B. C. Lyslo
Pres.: R. S. Lanier
V. P.-Prod.: H. B. Merrell **GE, GS**

WASHINGTON STEEL CORP.
Woodland & Griffith Ave., Washington, Pa., (Tel. Baldwin 2-8000)
Purch. Agent: R. O. Fulton
Sales Mgr.: John C. Richards **MM**

WASHINGTON TECHNOLOGICAL ASSOCIATES, INC.
979 Rollins Ave., Rockville, Md. (Tel. HAzelwood 7-7550)
Chief Purch. Agent: Ernest Tingle
Asst. Purch. Agent: John McPherson **GS, GH, GE, CO, TS, TR, R&D**

WASLEY PRODUCTS, INC.
College Highway, Plainville, Conn. (Tel. SHerwood 7-2784)
V. P.-Purch. & Sales: A. Justin Wasley **MM, R&D**

WASSCO ELECTRIC PRODUCTS CORP.
2032 2nd Ave., S., St. Petersburg 12, Fla., (Tel. ORchard 1-2948)
Pres.: Henry G. Wasserlein

WASTE KING CORP., TECHNICAL PRODUCTS DIV.
5550 Harbor St., Los Angeles 22, Calif. (Tel. RAymond 3-9601)
Mgr.-Mfg. Services: Robert L. Potter
Mgr.-Engrg. Program Development: Frank L. Spencer **PS, GS, GE, CO, TS, R&D**

WATERBURY COMPANIES, INC.
835 S. Main St., Waterbury, Conn. (Tel. PL 6-5551)
Purch. Agent: F. Johnson
V. P.-Sales: W. F. Reibold **MF, WN, PS, GS, TR**

WATERBURY PRESSED METAL CO., THE
300 Chase Ave., Waterbury, Conn. (Tel. PLaza 6-8891)
Purch. Agent: H. R. Morrow
Sales Mgr.: Miss Merle Munson **MF**

WATERMAN PRODUCTS CO., INC.
2445 Emerald St., Philadelphia, Pa. (Tel. GArfield 6-8600)
Purch. Agent: S. Marritz
Buyer: J. Nathan
Field Engrg. Mgr.: J. M. Boyle
Product Mgr.: I. P. Plotkin **GS, CO, TS, R&D**

WATERS MFG., INC.
Boston Post Rd., Wayland, Mass. (Tel. ELmwood 8-2777)
Purch. Agent: M. P. Brown
Gen. Sales Mgr.: W. W. Bartell

WATERTOWN DIV., THE NEW YORK AIR BRAKE CO.
Starbuck Ave., Watertown, N. Y. (Tel. SUnset 2-7000)
Dir.-Purch.: R. R. Peterson
Purch. Asst.: H. A. Hardman
Buyers: P. F. Hoag & R. H. Madden
Gen. Mgr.-STRATOPOWER, Aircraft Equipment Sales: H. R. Doughty **R&D**

WATSON MFG. CO., INC.
5000 Taylor St., Jamestown, N. Y. (Tel. 7-191)
Purch. Agent: M. L. Adams
Buyer: H. O. A. Johnson
Metal Specialties Div.-Sales: L. P. Blanchard **MM**

WAUGH ENGRG. CO.
7842 Burnet Ave., Van Nuys, Calif. (Tel. ST 3-1055)
Purch. Agent: Allan L. Grotsky
Sales Mgr.: Reuel H. Smitter **WN, PS, GS, TS, R&D**

WAUKESHA FOUNDRY CO.
Lincoln Ave., Waukesha, Wisc. (Tel. Liberty 2-6657)
Purch. Agent: Joseph C. Kehoss
V. P. & Gen. Mgr.: John W. Weaver **MM, R&D**

WAVEGUIDE, INC.
1769 Placentia, Costa Mesa, Calif. (Tel. MAdison 8-7786)
Purch. Agent: N. C. Glass
Sales Mgr.: John J. Bodley **WN, GS, CO, TS, TR, MM**

WAVELINE, INC.
Passaic Ave., Caldwell, N. J. (Tel. CApitol 6-9100)
Purch. Agent: Walter Specht
Gen. Mgr.: Robert H. Koenig
Sales Mgr.: Robert H. Morris **GE, TR**

WAYNE FOUNDRY & STAMPING CO.
3100 Hubbard, Detroit 10, Mich. (Tel. TAshmoo 5-8226)
Purch. Agent: C. D. MacPherson
Sales Mgr.: C. D. Todd, Jr. **MF, WN, PS**

WAYNE MFG. CO.
1275 E. Lexington Ave., Dept. E, Pomona, Calif. (Tel. National 9-4071)
Purch.: R. M. Peddicord
Sales: W. G. Wiley

WAYNE PUMP CO., THE, DIV.-SYMINGTON WAYNE CORP.
Herbert, Riverbend & Griffin Sts., Ft. Wayne 4, Ind. (Tel. EAstbrook 4664)
Purch. Agent: V. O. Pontius
Dir.-Sales: R. L. Burke, Jr. **MF, WN, PS, GS, GH, GE, MM, R&D**

WAYNE-GEORGE CORP.
1117 Commonwealth Ave., Boston 15, Mass. (Tel. STadium 2-3737)
Purch. Agent: Walter Bohmer
Mgr.-Contracts: George F. George **GE, TS, TR, R&D**

***WEATHERHEAD CO., THE**
300 E. 131st St., Cleveland 8, O. (Tel. GLenville 1-5200)
Purch. Agent: J. A. Fanning
Gen. Sales Mgr.-Aviation & Ord. Div.: J. W. Walcott **MF, PS, GS**
*(See Page 60 for Advertisement)

WEAVER MFG., CO
2171 S. 9th St., Springfield, Ill. (Tel. 2-8861)
Purch. Agent: O. W. Ellis
Purch. Dept.: Anna M. Dowell
V. P.-Sales: Ruel Logan **GS, GH, R&D**

WEBBER ENGRG. CORP.
P. O. Box 217, Indianapolis 6, Ind. (Tel. MElrose 2-1378)
Purch. Agent: V. L. Fagin
Pres. & Sales Mgr.: Robert C. Webber **TS**

WEBCOR, INC., GOVERNMENT DIV.
816 N. Kedzie Ave., Chicago 51, Ill. (Tel. NEvada 2-3425)
Dir.-Purch.: C. S. Wybran
Buyers: G. L. Scheel, P. S. Kibler & J. F. Frisby **MF, WN, PS, GS, GH, GE, TS, TR**

WEBER AIRCRAFT CORP.
2820 Ontario St., Burbank, Calif. (Tel. VIctoria 9-1181)
Dir.-Materiel: Fred Good
Purch. Supvrs.: R. G. Askew, R. E. Fulbright & J. W. Culbertson
Dir.-Sales: Harold G. Johnson **MF, GS, GH**

WEIGHING & CONTROL COMPONENTS, INC.
206 Lincoln Ave., Hatboro, Pa. (Tel. OSborne 5-0901)
Purch. Agent: Alfred Krieg
Sales Mgr.: Henry J. Oursler, Jr.

WEINSCHEL ENGRG.
10503 Metropolitan Ave., Kensington, Md. (Tel. LOckwood 4-0122)
Purch. Agent: Joseph H. West
Sales Mgr.: Edward Birochak **GS, GE, CO, TS, TR, R&D**

WEKSLER INSTRUMENTS CORP.
195 E. Merrick Rd., Freeport, L. I., N. Y. (Tel. MAyfair 3-0100)
Purch. Agent: Milford Himmel
V. P.-Sales: F. J. Pla **TS**

A. W. WELCH MFG., CO., INC.
509 E. 29th St., Indianapolis 5, Ind. (Tel. WA 5-7878)
Pres.: A. W. Welch
Sales Mgr.: Jim Hutchison

WELDED CONSTRUCTION INC.
2320 W. 15th Place, Cleveland 13, Ohio (Tel. MAin 1-0103)
Purch. Agent: John Dufenetz
Sales: Joseph A. Thayer **GS, GH**

WELDMATIC DIV., UNITEK CORP.
380 N. Halstead Ave., Pasadena, Calif. (Tel. SYcamore 5-5995)
Purch. Agent: Robert Raney
Gen. Mgr.: Gerald E. Woods **GS, TS**

WELLMAN BRONZE & ALUMINUM CO.
12800 Shaker Blvd., Cleveland, O. (Tel. WYoming 1-7000)
Purch. Agent: B. E. Weimer
V. P.-Chg. Sales: Glenn F. Ihrig **MF**

WELWYN INTERNATIONAL INC.
3355 Edgecliff Terrace, Cleveland 11, Ohio (Tel. WInton 1-1333)
Sales Mgr.: John Buchspice **MM**

WENZLAU ENGRG. CO.
410 Solano Ave., Los Angeles 12, Calif. (Tel. CApital 2-3151)
Sales Mgr.: William D. Wenzlau **GS, GH, MM**

***R. D. WERNER CO., INC.**
295 Fifth Ave., New York 16, N. Y. (Tel. MU 6-2595)
Asst. Adv. Mgr.: Harry Nix **GS, GH, TS**
*(See Page 78 for Advertisement)

ALBERT WESLING & SONS INC.
2912 W. Lake St., Chicago 12, Ill. (Tel. KEdzie 3-2850)
V. P.-Sales: A. H. Wesling **GS**

WESREP CORP.
2022 S. Sepulveda Blvd., Los Angeles 25, Calif. (Tel. BRadshaw 2-3757)
Pres.: Dudley V. Cassard
Sales Mgr.: Robert A. Hager **PS, GE, TS**

WEST INSTRUMENT CORP.
4363 W. Montrose Ave., Chicago 41, Ill. (Tel. Palisade 5-1007)
Purch. Agents: Lester Thurow, Robert Aerts
Sales Mgr.: Ardmore M. Willer

WESTBERG MFG. CO.
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Research & Development R&D
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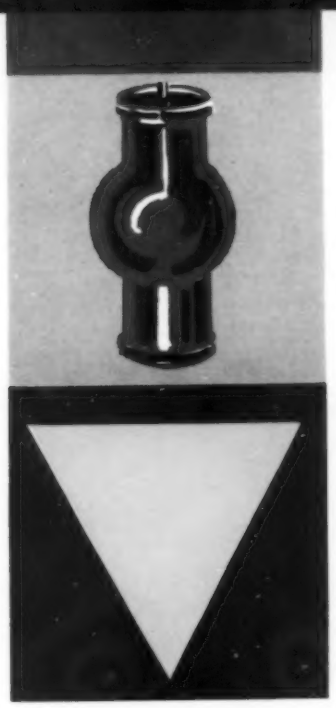
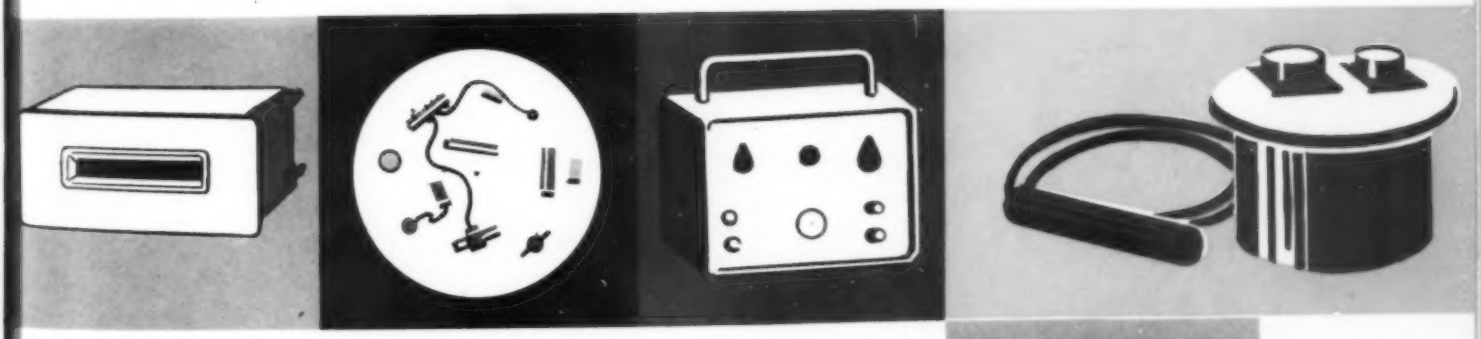
Sources of supply, industry capability, products, and manufacturers' index make this M/R special the most praised and handiest reference book in the industry. A must for anyone involved in missile or space flight work.

M/R

technical/news weekly of the missile/space industries



MISSILE PRODUCT DIRECTORY



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- INLET PRESSURES FROM 3000 TO 300 P.S.I.G.
- OUTLET PRESSURE RANGE FROM 12 TO 75 P.S.I.G.
- TOLERANCE ± 0.5 P.S.I.G.
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- CONTROLS HELIUM, NITROGEN OR AIR.
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MISSILE PRODUCT DIRECTORY

Below are listed over 3,000 parts and products used in the missile industry. Companies manufacturing these components appear alphabetically under each product. In order to obtain the company address, telephone number, and key purchasing and sales personnel, please refer to the MISSILE PURCHASING DIRECTORY which begins on page 111 of this issue. (Products and manufacturers of Materials and Metals, a new category with this edition, appear in the section beginning on page 101.)

ABSORBERS

Aircom Inc.
Airtron Inc., Div.-Litton Industries
American Aeroparts
Breeze Corporations, Inc.
Cleveland Pneumatic Industries, Inc.
Columbia Research & Development Corp.
Demornay-Bonard
Emerson & Cuming, Inc.
Federal Shock Mount Corp.-Div. The Korfund Co., Inc.
Filmohm Corp.
Gabriel Co., The, Gabriel Electronics Div.
General Electric Co., X-Ray Dept.
Hahn & Clay
***HOUDAILLE INDUSTRIES, INC., BUFFALO HYDRAULICS DIV.**
J. W. Johnson & Co., Inc.
Lord Mfg. Co.
McMillan Industrial Corp.
***MIRAX CHEMICAL PRODUCTS CORP., METAL CONTAINER DIV.**
Pilot Chemicals, Inc.
Portchester Instrument Corp.
Radar Design Corp.
Red Lion Cabinet Co., Redco Tool Div.
Rubbercraft Corp. of California
Schutte & Koerting Co.
Sun Electric Corp., Aeronautical Div.
Taylor Devices, Inc.
Topper Mfg. Co., Inc.
Van Zelm Associates, Inc.
Western Felt Works & Acadia Synthetic Products Div.

ABSORBERS, MICROWAVE
See MICROWAVE ABSORBERS

ABSORBERS, POWER
See POWER ABSORBERS

ABSORBERS, SHOCK, CORD & RINGS
See SHOCK ABSORBERS, CORD & RINGS

ABSORBERS, VIBRATION
See VIBRATION ABSORBERS

ACCELERATION TEST UNITS, MILITARY
See TEST UNITS, ACCELERATION, MILITARY

ACCELERATORS, PARTICLE

Allis-Chalmers
American Instrument Co., Inc.
American Machine & Foundry Co., Government Products Group
Applied Radiation Corp.
BJ Electronics, Borg-Warner Corp.
Bell Aircraft Corp., Niagara Frontier Div.
Cooper Development Corp., Sub.-Marquardt Aircraft Co.
Daystrom Pacific Div.-Daystrom, Inc.
Edcliff Instruments
Elgin Micronics, West Coast Div.-Elgin National Watch Co.
Ford Instrument Co., Div.-Sperry Rand Corp.
General Electric Co., Missile & Space Vehicle Dept.
General Electric Co., X-Ray Dept.
G. M. Giannini & Co., Inc.
High Voltage Engrg. Corp.
Humphrey, Inc.
Impact-O-Graph Corp., The
Kin Tel Div.-Cohu Electronics, Inc.
Kollsman Instrument Corp., Sub.-Standard Coil Products Co. Inc.
Minneapolis-Honeywell Regulator Co.-Aeronautical Div.
National Pneumatic Co., Inc., Holtzer-Cabot Divs.
Radiation Dynamics, Inc.
Rahm Instruments, Div.-American Machine & Metals, Inc.
Red Lion Cabinet Co., Redco Tool Div.
Reeves Instrument Corp.
Schaevitz Engrg.
Technology Instrument Corp.
U. S. Science Corp.
Varian Associates

ACCELEROMETERS

ACF Industries Inc.
Air Logistics Corp.
***AIRESEARCH MFG. CO. OF ARIZ.**
R. C. Allen Aircraft Instr. Div., R. C. Allen Bus. Machines, Inc.
American Electronics, Inc.
American Felt Co.
American Machine & Foundry Co., Government Products Group
Arma Div., American Bosch Arma Corp.
Associated Engineers, Inc.
B & F Instruments, Inc.
B & K Instruments, Inc.
Belock Instrument Corp.
Bendix Aviation Corp., Eclipse-Pioneer Div.
Bendix Aviation Corp., Pioneer-Central Div.
Bourns Labs., Inc.
Brush Instruments, Div.-Clevite Corp.
Cadillac Gage Co.
Chesapeake Instrument Corp.
Cleveland Pneumatic Industries, Inc.
Consolidated Electrodynamics Corp.
Control Data Corp.
Delco-Remy Div., General Motors Corp.
Donner Scientific Co.
Electro-Mechanical Products Co.
Elgin Micronics Div.-Elgin National Watch Co.
Endevco Corp.
ERA Engrg. Inc.
Fairchild Controls Corp., Components Div.
Genisco, Inc.
Genisco, Inc., Instrument Div.
Greenleaf Mfg. Div., The, Mandrel Ind. Inc.
Gulton Industries, Inc.
Highland Rim Machine Works Inc.
Hoffman Labs Div., Hoffman Electronics Corp.
ITT Labs.
Inertia Switch, Inc.
Instrument Development Labs., Inc.
Jordan Electronics, Div.-Victoreen Instrument Co.
***KEARFOTT CO., INC.**
Leach Corp.
Lear, Inc.
Lear, Inc., Grand Rapids Div.
***WALLACE O. LEONARD, INC.**
Litton Industries, Inc.
Massa Div.-Cohu Electronics, Inc.
Minneapolis-Honeywell Regulator Co.-Aeronautical Div.
Minneapolis-Honeywell Regulator Co., Boston Div.
Northrop Corp.
Northrop Corp., The, Nortronics Div.
Pace Engrg. Co.
Pacific Scientific Co.
Pickering & Co., Inc.
Pioneer Tool & Engrg. Co.
Power-Tronic Systems Inc.
Pyles Industries, Inc.
Radiation, Inc.
Raymond Engrg. Lab., Inc.
Red Lion Cabinet Co., Redco Tool Div.
***RHEEM MFG. CO., DEFENSE & TECHNICAL PRODUCTS DIV.**
Sanders Associates, Inc.
Servomechanisms, Inc.
Sperry Farragut Co., Div.-Sperry Rand Corp.
Statham Instruments, Inc.
Summers Gyroscope Co.
Trionics Corp.
Ultradyne, Inc.
U. S. Science Corp., Div.-Topp Industries, Inc.
United States Time Corp.
Waltham Engrg. Corp.
Whittaker Gyro. Div.-Telecomputing Corp.
Wilks Precision Instrument Co., Inc.

ACCESSORIES & COMPONENTS, ENGINE
See ENGINE ACCESSORIES & COMPONENTS

ACCESSORIES, MICROWAVE
See MICROWAVE ACCESSORIES

ACCUMULATORS

American Aeroparts
American Felt Co.
American Machine & Foundry Co., Government Products Group
Applied Dynamics Corp.
Astronautics Engrg. Co.
Bendix-Pacific Div., Bendix Aviation Corp.
Bendix Utica Div., Bendix Aviation Corp.
Cleveland Pneumatic Industries, Inc.
Com-Air Products, Div.-A S R Products Corp.
Denison Engrg. Div., American Brake Shoe Co.
Dumont Aircraft Fitting Co.
Dunbar-Kapple Inc.-Aircraft Components Div.
Electrol Inc.
Greer Hydraulics, Inc.
Hahn & Clay
Hannifin Co., Div.-Parker-Hannifin Corp.
Highland Rim Machine Works Inc.
Hufford Corp., The
Hydra-Power Corp.
Hydrodyne Corp., Skinner Seal Div.
Integral Corp.
Interstate Engrg. Corp.
Kaiser Aircraft & Electronics, Div.-Kaiser Industries Corp.
Waltes Kidde & Co., Inc., Aviation Div.
Koehler Aircraft Products Co.
Menasco Mfg. Co.
Minneapolis-Honeywell Regulator Co., Ordnance Div.
National Pneumatic Co., Inc., Holtzer-Cabot Divs.
Natl. Water Lift Co., Div.-Cleveland Pneumatic Industries, Inc.
Norris-Thermador Corp.
Parker Hydraulics Div., Parker-Hannifin Corp.
Portland Copper & Tank Works Inc.
Randall Engrg. Corp.
Red Lion Cabinet Co., Redco Tool Div.
S-P Mfg. Corp., The
Sargent Engrg. Corp.
Taylor Devices, Inc.
U. S. Industries, Inc.
Vickers Inc., Div.-Sperry Rand
Vilter Mfg. Co., The
Vinson Mfg. Co. Inc.
***WEATHERHEAD CO., THE**

ACCUMULATORS, HYDRAULIC

American Aeroparts
American Bosch Arma Corp.
American Machine & Foundry Co., Government Products Group
Applied Dynamics Corp.
Arma Div., American Bosch Arma Corp.
Atlantic Instrument Corp., Sub.-American Electronics, Inc.
Bendix-Pacific Div., Bendix Aviation Corp.
Bendix Utica Div., Bendix Aviation Corp.
Com-Air Products, Div.-A S R Products Corp.
Cooper Development Corp., Sub.-Marquardt Aircraft Co.
Denison Engrg. Div., American Brake Shoe Co.
Diversey Engrg. Co.
Dumont Aircraft Fitting Co.
Eastern Industries Inc.
Electrol Inc.
Greer Hydraulics, Inc.
Hahn & Clay
Hannifin Co., Div.-Parker-Hannifin Corp.
Haskel Engrg. & Supply Co.
Horkey-Moore Associates
Hufford Corp., The
Hydra-Power Corp.
Hydrodyne Corp., Skinner Seal Div.
Integral Corp.
Interstate Engrg. Corp.
Jack & Heintz, Inc.
Kaiser Aircraft & Electronics, Div.-Kaiser Industries Corp.
Lear, Inc.
Menasco Mfg. Co.
National Pneumatic Co., Inc., Holtzer-Cabot Divs.
Natl. Water Lift Co., Div.-Cleveland Pneumatic Industries, Inc.
Norris-Thermador Corp.
Oil-Dyne, Inc.
Ozone Metal Products Corp.
Parker Aircraft Co.
Parker Hydraulics Div., Parker-Hannifin Corp.
Parts Engrg. Co., Inc.
Portland Copper & Tank Works Inc.
Randall Engrg. Corp.
Ravenna Metal Products, Div.-Standard Screw Co.
Red Lion Cabinet Co., Redco Tool Div.
Ronson Hydraulic Units Corp.
S-P Mfg. Corp., The
Sargent Engrg. Corp.
Stratos Div.-Fairchild Engine & Airplane Corp.
Taylor Devices, Inc.
U. S. Industries, Inc.

Vickers Inc., Div.-Sperry Rand
Vickers Inc., Marine & Ordnance Dept., Machinery Hydraulics Div.
Vinco Corp.
Vinson Mfg. Co. Inc.
Waldorf Fluid Systems. Div.-F.C. Huyck & Sons
Washington Technological Associates Inc.
Waste King Corp., Technical Products Div.
Watertown Div., The New York Air Brake Co.
***WEATHERHEAD CO., THE**
Wickfield, Inc.
Wise Aerodraulics, Inc.

ACTUATORS

a. Electric
b. Hydraulic
c. Linear
d. Pneumatic
e. Rotary

ACF Industries Inc., a, b.
Abrams Instrument Corp., e.
Actuation Research Corp., a thru e.
Actuator Products Div., Geartronics Corp., a thru e.
Adel Precision Products of California, Div.-General Metals Corp., b.
Aeroflex Corp., The, Aeroflex Labs. Div., a, b, c.
Airborne Accessories Corp., c, e.
***AIRESEARCH MFG. CO. DIV.-THE GARRETT CORP.**, a thru e.
Alco Valve Co., a, b.
American Aeroparts, a, b, c.
American Bosch Arma Corp., a, b, d.
American Electronics, Inc., c.
American Machine & Foundry Co., Government Products Group, a thru d.
American Machine & Foundry Co., Greenwich, a thru d.
American Measurement & Control, Inc., a, b, c, e.
***ANNIN CO., THE**, a, b, d.
Artisan Electronics Corp., a, c, e.
Associated Engineers, Inc., a thru d.
Astronautics Engrg. Co., b.
Atlantic Instrument Corp., Sub.-American Electronics, Inc., a.
Atlas Precision Products, Co., e.
Banner Industries, a, b, d.
Barber-Colman Co., a, c, d, e.
Beaver Precision Products Inc., b, e.
Bell Aircraft Corp., Niagara Frontier Div., b.
Bellofram Corp., b.
Belock Instrument Corp., a, c, e.
***BENDIX AVIATION CORP.-HAMILTON DIV.**, b, e.
Bendix-Pacific Div., Bendix Aviation Corp., a thru e.
Bendix Utica Div., Bendix Aviation Corp.
Blackhawk Mfg. Co., b.
Bobrick Mfg. Corp., b, d.
Bogue Electric Mfg. Co., a.
Bowser, Inc., Defense Dept., b.
Breeze Corporations, Inc., a thru e.
Bristol Co., The, a, b, d, e.
Bruning Co., The, b.
CDC Control Services, Inc., a, b.
Cable Electric Products, Inc., a.
Cadillac Gage Co., b, c.
Capital City Mfg. Co., b, d.
Carter Controls, Inc., b, d, e.
Chicago Aerial Industries, Inc., a.
Chicago Pneumatic Tool Co., a, d.
Clary Dynamics, a, b, d.
Clemco Aero Products, Inc., b, c, e.
Cleveland Pneumatic Industries, Inc., a thru e.
Clippard Instrument Lab., Inc., b, d.
Com-Air Products, Div.-A S R Products Corp., b, c, d.
Conoflow Corp., a, d, e.
Consolidated Controls Corp., b.
Consolidated Diesel Electric Corp., a thru e.
James Cunningham Son & Co., Inc., a, c.
Curtiss-Wright Corp.-Propeller Div., c, e.
Dalmotor Div., Yuba Consolidated Industries, Inc., a, e.
Delco-Remy Div., General Motors Corp., a.
Denison Engrg. Div., American Brake Shoe Co., b.
Diversey Engrg. Co., b, d.
Dukes Co., Inc., b.
Dumont Aircraft Fitting Co., b, d, e.
Dynamic Controls Corp., b, d.
Eastern Industries, Inc., a, b, e.
Thomas A. Edison Ind. Instrument Div.-McGraw-Edison Co., e.
***ELECTRICAL ENGRG. & MFG. CORP.**, c, e.
Electrol Inc., b, d, e.
Electro-Mechanical Products Co., a.
Electronic Communications, Inc., a, c, e.
Electro-Seal Corp., a.
Exact Engrg. & Mfg. Inc., a, e.
Foote Bros. Gear & Machine Corp., a, c, e.
Ford Instrument Co., Div.-Sperry Rand Corp., a.
Fulton-Irgon Corp., The, c, e.
General Electric Co., Apparatus Sales Div., c, d, e.
General Electro-Mechanical Corp., a, e.
Gilfillan Bros. Inc., a thru e.
Greer Hydraulics, Inc., b, c, e.
Hamilton Standard, Div.-United Aircraft Corp., a, b, d.
Haskel Engrg. & Supply Co., b, d, e.
***A. W. HAYDON CO., THE**, a, e.
Highland Rim Machine Works, Inc., c, e.
Hoover Electric Co., a, c, e.
Horkey-Moore Associates, d.
***HOUDAILLE INDUSTRIES, INC., BUFFALO HYDRAULICS DIV.**, b, e.
Hufford Corp., The, b.
Hughes Tool Co., Aircraft Div., a, d.
Hupp Aviation Co., e.
Walter J. Hyatt Co., The, a thru e.
Hycon Mfg. Co., b, c, e.
Hydra-Power Corp., b thru e.
Hydrodyne Corp., Skinner Seal Div., d.
Hydromatics, Inc., b, d.
Integral Corp., b, d.
Interstate Engrg. Corp., b, d.
Jack & Heintz, Inc., a, b, c, e.
Javelin Aircraft Co., Inc., a thru e.
Jordon Co., Inc., The, a, c, e.
Kaiser Aircraft & Electronics, Div.-Kaiser Industries Corp., d.
***KEARFOTT CO., INC.**, b thru e.
Kelsey-Hayes Co., b thru e.
Kemp Aero Products, b, d, e.
Walter Kidde & Co., Inc., Aviation Div., d.
Korda Industries, a thru e.
Land-Air, Inc., a, c, e.
Lear, Inc., a thru e.
Lear, Inc., Grand Rapids Div., a thru e.
Leetronics, Inc., a, e.
Leland Airborne Products, Div.-American Machine & Foundry Co., a, e.
Leslie Co., b, c, d.
Lundy Mfg. Corp., a thru e.
Lyndon Aircraft, Inc., a, c, e.
Magtrol, Inc., a, e.
Marquardt Aircraft Co., b, d.
Mason-Neilan, b, d.
McDowell-Wellman Companies, The, b, d.
Menasco Mfg. Co., b thru e.
Mercury Tool & Mfg. Corp., b, d.
Minneapolis-Honeywell Regulator Co.-Aeronautical Div., a, b, d, e.
Minneapolis-Honeywell Regulator Co., Industrial Product Group, a, b, d.
Minneapolis-Honeywell Regulator Co., Ordnance Div., a, b.
Monogram Precision Industries, a, b.
Moog Valve Co., Inc., a, b, c, e.
Morse Instrument Co., The, c, e.
Heinz Mueller Eng. Co. Inc., a, e.
National Pneumatic Co., Inc., Holtzer-Cabot Divs., a thru e.
Natl. Water Lift Co., Div.-Cleveland Pneumatic Industries, Inc., a, b, d, e.
Newbrook Machine Corp., a thru e.
Norwood Controls Unit Detroit Controls Div., a.
Oil-Dyne, Inc., b.
Ozone Metal Products Corp., b thru e.
Parker Aircraft Co., b, e.
Parts Engrg. Co., Inc., b.
Pesco Products Div.-Borg-Warner Corp., a.
Phillips Aviation Co.-Marples Gears, a, b, d.
Photomation, Inc.
Pioneer Tool & Engrg. Co., a, b, d.
Power-Tronic Systems, Inc., a.
***PROPELLEX CHEMICAL DIV., CHROMALLOY CORP.**
Randall Engrg. Corp.
Raymond Engrg. Lab., Inc., a.
Red Lion Cabinet Co., Redco Tool Div., a, b.
Regent Jack Mfg. Co., Inc., b.
Reinhold Engrg. & Plastics Co., d.
Republic Mfg. Co., b.
Robot Industries, Inc., a, c.
Ronson Hydraulic Units Corp., b, d.
Royal Industries, Inc., a, b, c.
S-P Mfg. Corp., The, b, d.
Sage-Craft, Inc., a.
Sancor Corp., a.
Sargent Engrg. Corp., a thru e.
Servomechanisms, Inc., Mechatrol Div., e.
Singer Mfg. Co., The, Military Products Div., c, e.
Sirvalco Systems Corp., b, d, e.
Skinner Precision Products, d.
Small Motors Inc., a.
Smith-Morris Corp., a, b, c.
Southwestern Industries, Inc., c, e.
Space Corp., a, b, e.
Sperry Farragut Co., Div.-Sperry Rand Corp., a, b.
Standard Controls, Inc., b.
Stanley Aviation Corp., d.
Stratos, Div.-Fairchild Engine & Airplane Corp., b, c, d.
Summers Gyroscope Co., a.
Swartwout Co., The, a.
Tactair Valve Div.-Aircraft Products Co., b, d.
Talley Corp., The, a thru e.
Tapco Group, Thompson Ramo Wooldridge Inc., b, d.
Task Corp., a, b, c, e.
Telectro Industries Corp., a.
Transco Products, Inc., e.
Turbo Products, Inc., b, d.
Twigg Industries, b.
U. S. Industries, Inc., a, c.
United Aircraft Products, Inc., b.
United Supply Co., a.
Vap-Air Aeronautical Products Div., Vapor Heating Corp., d.
Vard Inc., a thru e.
Vickers Inc., Div.-Sperry Rand, b, e.
Vickers Inc., Marine & Ordnance Dept., Machinery Hydraulics Div., b.
Walbar Machine Products Inc., b.
Waldorf Fluid Systems Div.-F. C. Huyck & Sons, b, d.
Waltham Engrg. Corp., a.
Washington Technological Associates Inc., b.
Waste King Corp., Technical Products Div., b, d.
Watertown Div., The New York Air Brake Co., b, e.
***WEATHERHEAD CO., THE**, b.
Western Design, Div.-U. S. Industries, Inc., Santa Barbara Div., a, c, e.
Western Gear Corp., a thru e.
Westinghouse Electric Corp., a, b.
Weston Hydraulics Ltd.-Sub., Borg-Warner Corp., b, d.
Westronics Inc., a, c.
Whittaker Controls, Div.-Telecomputing Corp., a, b, d.
Whittaker Gyro. Div.-Telecomputing Corp., a, e.
Wickfield, Inc., b, d.
Wise Aerodraulics, Inc., b.

ACTUATORS, EMERGENCY

***PROPELLEX CHEMICAL DIV., CHROMALLOY CORP.**

ADAPTERS

a. Battery
b. Crystal
c. Field Sequential
d. Foreign
e. Lamp Socket
f. Line & Dot Sequential
g. Phase
h. Plug
i. Test
j. Tube
k. Tube Socket

Accurate Electronics Corp., Dept. D., a, h, k.
Aerolite Electronics Corp., a, e, h, i.
Airtronics International Corp., g.
Alden Products Co., h. j.
American Aeroparts, a.
Anaheim Electronics Co., Inc., i.
Anchor Metal Spinning Co., The, j, k.
Anchor Specialty Mfg. Co. Inc., h, i.
Arrow-Hart Hegeman Electric Co., The, e, h.
Associated Engrg. & Mfg. Corp., k.
Associated Engineers, Inc., h, i.
Baldwin Mfg. Co., Inc., The, h.
W. A. Beauchaine & Sons Inc., i, k.
Cable Electric Products Inc., a, d, g, h, i.
Chase Brass & Copper Co., Inc., j.
Coaxial Connector Co., Inc., g.
Cole Electric Co., a, h, i.
Cole-Hersee Co., e.
Dytronics Co., g.
Eagle Electric Mfg. Co., Inc., c, d, h.
Elco Corp., k.
Eldema Corp., e.
Electro-Mechanical Products Co., a, i.
***ELECTROSNAP CORP.**, e.
Ericson Mfg. Co., The, h.
FXR, Inc., i.
Highland Rim Machine Works Inc.
Indusl. Prod.-Danbury Knudsen Div. Amphenol-Borg Electronics Corp., h.
Jettron Products, Inc., j, k.
Korda Industries, h.
Kulka Electric Corp., d, e, h.
Meridian Metalcraft, Inc., b.
Meteor Production Engr., Inc., a.
Microwave Development Labs., Inc.
Monogram Precision Industries
Frank W. Morse Co., d, e.
National Pneumatic Co., Inc., Holtzer-Cabot Divs., a, f, i.
Paul Nurches Co., h, i, j.
Permacel, k.
Pomona Electronics Co., Inc., i, k.
Projects Unlimited Inc., i.
State Testing Lab. Inc., i.
Sylvania Electric Products Inc., Parts Div., i, j, k.
Tamar Electronics, Inc.
Technical Apparatus Builders, a, h, i, j.
Vector Electronic Co., i, k.
Victor R. F. & Microwave Co., a.
Warren Components, Div. El-Tronics, Inc., k.
Wayne Pump Co., The, Div.-Symington Wayne Corp.
Western International Co., h.
Winder Aircraft Corp. of Florida, a.

ADHESIVES, HIGH TEMPERATURE

Adhesive Engrg., Div.-Hiller Aircraft Corp.
Aerojet-General Corp.
Aeronca Mfg. Corp.
American Latex Products Corp.
American Rocket Co.
Aries Laboratories, Inc.
Armour & Co., Armour Alliance Industries
Carl H. Biggs Co.
Bloomingdale Rubber Co.
Borden Chemical Co.
Samuel Cabot Inc.
Connecticut Hard Rubber Co., The
Corning Glass Works
DBM Research Corp.
Dayton Rubber Co., The
Delta Chemical Works, Inc.
***DOW CORNING CORP.**
Dresser Mfg. Div., Dresser Industries, Inc.
E. I. Du Pont De Nemours & Co. Inc.

Dyna-Therm Chemical Corp.
Emerson & Cuming, Inc.
Fulton-Irgon Corp., The
Furane Plastics, Inc.
B. F. Goodrich Industrial Products Co.
Grant Chemical Co., Inc.
Haveg Industries, Inc.
Homalite Corp., The
Honeycomb Co. of America, Inc.
Houghton Laboratories, Inc.
Johns-Mansville
Lamtex Industries, Inc.
Lebec Chemical Corp.
Leffingwell Chemical Co.
Marblette Corp., The
Minnesota Mining & Mfg. Co.
Minnesota Mining & Mfg. Co.-Adhesives, Coating & Sealers Div.
Monogram Precision Industries
Morningstar-Paisley, Inc.
National Beryllia Corp.
Olin Mathieson Chemical Corp., Energy Div.
Permacel
Products Research Co.
Protex-A-Cote, Inc.
Raybestos-Manhattan, Inc.
Raybestos-Manhattan, Inc., Pa.
Rubber & Asbestos Corp.
Saureisen Cements Co.
Shell Chemical Corp., Industrial Chemicals Div.
Smooth-On Mfg. Co.
Spectra-Strip Wire & Cable Corp.
Stic-Klip Mfg., Co.
Thermal Refractories Corp.
Topper Mfg. Co., Inc.
United States Rubber Co.
Wesrep Corp.
Westline Products Div., Western Lithograph Co.

ADHESIVES, METAL TO METAL

Adhesive Engrg., Div.-Hiller Aircraft Corp.
Aerojet-General Corp.
Ambroid Co. Inc.
American Latex Products Corp.
American Rocket Co.
Aries Laboratories, Inc.
Armstrong Cork Co.
Armstrong Products Co.
Atlantic Instrument Corp., Sub.-American Electronics, Inc.
Bacon Industries, Inc.
Carl H. Biggs Co.
Bloomingdale Rubber Co.
Borden Chemical Co.
Carboline Co.
Connecticut Hard Rubber Co., The
Cox & Co., Inc.
DBM Research Corp.
Dayton Rubber Co., The
Delta Chemical Works, Inc.
Dennis Chemical Co.
Devcon Corp.
Dresser Mfg. Div., Dresser Industries, Inc.
Dyna-Therm Chemical Corp.
Emerson & Cuming, Inc.
Fenwal Electronics, Inc.
Fenwal Inc.
B. F. Goodrich Industrial Products Co.
Grant Chemical Co., Inc.
Houghton Laboratories, Inc.
Johns-Manville
Lebec Chemical Corp.
Maas & Waldstein Co.
Marblette Corp., The
Minnesota Mining & Mfg. Co.
Minnesota Mining & Mfg. Co.-Adhesives, Coating & Sealers Div.
Monogram Precision Industries
Morningstar-Paisley, Inc.
Norton Co., New Products Dept.
Presstite Div., American-Marietta
Products Research Co.
Protex-A-Cote, Inc.
Raybestos-Manhattan, Inc.
Raybestos-Manhattan, Inc., Pa.
Edw. Renneburg & Sons Co.
Rubber & Asbestos Corp.
Saureisen Cements Co.
Shell Chemical Corp., Industrial Chemicals Div.
Smooth-On Mfg. Co.
Stic-Klip Mfg., Co.
Thiokol Chemical Corp.
Topper Mfg. Co., Inc.
Trionics Corp.
Wye Industries

ADJUSTING SHIMS
See SHIMS, ADJUSTING

AFTERBURNERS

ACF Industries Inc.
Curtiss-Wright Corp., Research Div.
Curtiss-Wright Corp., Wright Aeronautical Div.
Diversey Engrg. Co.
Dresser Mfg. Div., Dresser Industries, Inc.
Finn Aeronautical Div., T. R. Finn & Co., Inc.
Fletcher Mfg. Co., Inc., The
Hupp Aviation Co.
I-T-E Circuit Breaker Co.
Kanarr Corp.
Kolcast Industries-Div. Thompson Ramo Wooldridge Inc.
***LAVELLE AIRCRAFT CORP.**
Marquardt Aircraft Co.
Mercury Tool & Mfg. Corp.
Norton Co., New Products Dept.
Penn-Michigan Mfg. Corp.
Portland Copper & Tank Works Inc.
Edw. Renneburg & Sons Co.
***RHEEM MFG. CO., DEFENSE & TECHNICAL PRODUCTS DIV.**
C. F. Roark Welding & Engrg. Co., Inc.
Ryan Aeronautical Co.
Smith-Morris Corp.
Solar Aircraft Co.
Stainless Steel Products, Inc.
Teiner Engrg. Corp.
United Aircraft Products, Inc.
Westinghouse Electric Corp.

AFTERCOOLERS

R. P. Adams Co., Inc.
***AIRESEARCH MFG. CO. DIV.-THE GARRETT CORP.**
Aro Equipment Corp.
Diversey Engrg. Co.
Dunham-Bush Inc.
Griscom-Russell Co., The
Mercury Tool & Mfg. Corp.
Portland Copper & Tank Works Inc.
Rome-Turney Radiator Co., The
Stainless Steel Products, Inc.
Teiner Engrg. Corp.
Thompson Engrg. Co., The, Missile Products Div.
Trane Co., The
United Aircraft Products, Inc.
Westinghouse Electric Corp.

AIR ADAPTERS

Bendix Utica Div., Bendix Aviation Corp.
Highland Rim Machine Works Inc.
Monogram Precision Industries
Stratos Div.-Fairchild Engine & Airplane Corp.

AIR BAFFLES
See BAFFLES, AIR

AIR COMPRESSORS
See COMPRESSORS, AIR

AIR CONDITIONING EQUIPMENT

ACF Industries Inc.
Accessory Controls & Equipment Corp.
***AIRESEARCH MFG. CO. DIV.-THE GARRETT CORP.**
Airtemp Div., Chrysler Corp.
Alco Valve Co.
American Air Filter Co., Defense Products Div.
American Electronics, Inc.
American Electronics, Inc., Electric Machinery & Equipment Div.
Aro Equipment Corp.
Associated Engineers, Inc.
Bendix Utica Div., Bendix Aviation Corp.
Blowers Inc.
Bobrick Mfg. Corp.
California Aircraft Products
Cambridge Filter Corp.
Carrier Corp.
Clarage Fan Co.
Consolidated Diesel Electric Corp.
Drayer-Hanson Div., National-U.S. Radiator Corp.
Dresser Industries, Inc.
Dunham-Bush Inc.
Eastern Industries Inc.
Ellis & Watts Products, Inc.
Emerson Electric Mfg. Co., The, Electronics & Avionics Div.
FWD Corp.
Flexaust Co., The
General American Transportation Corp.
Hamilton Standard, Div.-United Aircraft Corp.
Paul Hardeman, Inc.
C. G. Hokanson Co., Inc.
Hughes Tool Co., Aircraft Div.
Hussmann Aircraft Div.
ILG Electric Ventilating Co.
International Radiant Corp.
Jet-Heet, Inc.
Marlo Coil Co.
Minneapolis-Honeywell Regulator Co.-Aeronautical Div.
Monogram Precision Industries
Monrovia Aviation Corp.
Mueller Brass Co.
Perfection Industries, Div.-Hupp Corp.
Pioneer Industries Div., Almar-York Co. Inc.
Pre-Flite Industries Corp.-Sub.-Avco Corp.
Radex Corp.
Randall Engrg. Corp.
Safety Electrical Equipment Corp.
Scaico Controls, Inc.
Scientific Instrument Co.
South Wind Div., Stewart Warner Corp.
Stainless Steel Products, Inc.
Stratos, Div.-Fairchild Engine & Airplane Corp.
Surface Combustion Corp.
Talley Corp., The
Tenney Engrg., Inc.
Torrington Mfg. Co. Inc., The, Specialty Blower Div.
Trane Co., The
Tranter Mfg., Inc.
United Aircraft Products, Inc.
United Control Corp.
United Electric Controls Co.
Universal Dynamics Corp.
Vilter Mfg. Co., The
Waste King Corp., Technical Products Div.
Wenzlau Engrg. Co.
York Corp.

AIR DATA COMPUTERS
See COMPUTERS, AIR DATA

AIR INLET GUIDE VALVES

Anchor Metal Spinning Co., The
Baldwin Mfg. Co. Inc., The
Bobrick Mfg. Corp.
Clary Dynamics
Curtiss-Wright Corp.-Wright Aeronautical Div.
Hamilton Standard, Div.-United Aircraft Corp.
Monogram Precision Industries
Randall Engrg. Corp.
Research Development Mfg. Inc.
Smith-Morris Corp.
Solar Aircraft Co.
Stratos, Div.-Fairchild Engine & Airplane Corp.
Talley Corp., The
Waldorf Fluid Systems. Div.-F.C. Huyck & Sons

AIR INLET SCREEN SUPPORTS

American Missile Products Co., Inc.
Anchor Metal Spinning Co., The
Cromer Mfg. & Engrg., Inc.
Curtiss-Wright Corp.-Wright Aeronautical Div.
Finn Aeronautical Div., T. R. Finn & Co., Inc.
Kanarr Corp.
Kentucky Metal Products Co.
Monogram Precision Industries
Smith-Morris Corp.
Talley Corp., The

AIR TURBINES
See TURBINES, AIR

AIRBORNE FILM RECORDERS
See RECORDERS, AIRBORNE FILM

AIRBORNE HOISTS
See HOISTS, AIRBORNE

AIRBORNE IGNITION SYSTEMS
See IGNITION SYSTEMS, AIRBORNE

AIRBORNE LANDING SYSTEMS

American Missile Products Co., Inc.
Associated Engineers, Inc.
Atlas Precision Products, Co.
Beaver Precision Products Inc.
Emerson Radio & Phonograph Corp.
Gilfillan Bros. Inc.
ITT Labs.
ITT-Kellogg
Jansky & Bailey, Inc.
Kemp Aero Products
Korda Industries
Litton Industries, Maryland Div.
Menlo Research Lab.
Mercury Tool & Mfg. Corp.
Minneapolis-Honeywell Regulator Co.-Aeronautical Div.
Motorola Inc., Military Electronics Div.
Northrop Corp., The, Nortronics Div.
Philco Corp., Government & Industrial Div.
Radiation, Inc.
Raytheon Mfg. Co., Government Equipment Div.
Space Corp.
U. S. Science Corp., Div.-Topp Industries, Inc.
Westinghouse Electric Corp.

AIRBORNE MAGNETIC RECORDERS
See RECORDERS, AIRBORNE MAGNETIC

AIRBORNE RADAR
See RADAR, AIRBORNE

AIRBORNE REFRIGERATION EQUIPMENT
See REFRIGERATION EQUIPMENT, AIRBORNE

AIRBORNE ROCKET LAUNCHERS
See LAUNCHERS, AIRBORNE ROCKET

ALARM SYSTEM CONTROLS
See CONTROLS, ALARM SYSTEM

ALARM SYSTEMS

Alto Scientific Co., Inc.
American Aeroparts
American Electronics, Inc., Teller & Cooper Div.
***ARNOUX CORP.**
Assembly Products, Inc.
Atlantic Instrument Corp., Sub.-American Electronics, Inc.
Bendix Aviation Corp., York Div.
Bristol Co., The
Centronix Inc.
Control Circuits Inc.
Davis Instruments
Thomas A. Edison Ind. Instrument Div.-McGraw-Edison Co.
Electronic Control Corp.
***ETS-HOKIN & GALVAN**

Federal Mfg. & Engrg. Corp.
Fenwal Electronics, Inc.
Fenwal Inc.
Globe Automatic Sprinkler Div., The Fyr-Fyter Co.
Hamilton Standard, Div.-United Aircraft Corp.
ITT-Kellogg
Jordan Electronics, Div.-Victoreen Instrument Co.
Magnetrol, Inc.
Minneapolis-Honeywell Regulator Co., Industrial Product Group
Miratel, Inc.
***MIRAX CHEMICAL PRODUCTS CORP., ELECTRO-MECHANICAL PRODUCTS DIV.**
Motorola Inc., Military Electronics Div.
North Electric Co.
Northrop Corp., The, Nortronics Div.
Philco Corp., Government & Industrial Div.
Photobell Co., Inc.
Scaico Controls, Inc.
Scam Instrument Corp., The
H. H. Scott, Inc.
Simmonds Aerocessories, Inc.
Stanley Aviation Corp.
Systron Corp.
Thermo Electric Co., Inc.
Thiokol Chemical Corp.
Thompson-Ramo-Wooldridge Products Co., The
U. S. Science Corp., Div.-Topp Industries, Inc.
Western Gear Corp.
Westronics Inc.
Wintronics

ALARMS, AUTO

Bendix Aviation Corp., York Div.
Bristol Co., The
Cole-Hersee Co.
***ETS-HOKIN & GALVAN**
Northrop Corp., The, Nortronics Div.
Scaico Controls, Inc.
Scam Instrument Corp., The
Telectro Industries Corp.
Thompson-Ramo-Wooldridge Products Co., The
United Electric Controls Co.

ALIGNMENT TOOLS
See TOOLS, ALIGNMENT

ALNICO

Arnold Engrg. Co., The
Barker Sales Co.
Bogue Electric Mfg., Co.
Bram Metallurgical & Chemical Co.
Crucible Steel Co. of America
Jeta, Inc.
Magnetic Seal Corp.
National Pneumatic Co., Inc., Holtzer-Cabot Divs.
Waimet Alloys Co., Div. Consolidated Foundries & Mfg. Corp.
Westinghouse Electric Corp.

ALTERNATORS

Aerojet-General Corp.
***AIRESEARCH MFG. CO. DIV.-THE GARRETT CORP.**
American Aeroparts
American Bosch Arma Corp.
American Electronics, Inc.
American Machine & Foundry Co., Government Products Group
Bendix Aviation Corp., Red Bank Div.
D. & R. Ltd.
Dalmotor Div., Yuba Consolidated Industries, Inc.
Delco-Remy Div., General Motors Corp.
Eicor Div.-Scranton
Electric Motors & Specialties, Inc.
Electro-Mechanical Products Co.
General Electric Co., Apparatus Sales Div.
Georator Corp.
Greer Hydraulics, Inc.
Hallamore Electronics Co.
Hoover Electric Co.
International Fermont Machinery Co., Inc.
Jack & Heintz, Inc.
Leach Corp.
Lear, Inc., Grand Rapids Div.
Leland Airborne Products, Div.-American Machine & Foundry Co.
***LYCOMING DIV., AVCO MFG. CORP.**
Motoresearch Co.
Heinz Mueller Eng. Co. Inc.
Pioneer Tool & Engrg. Co.
Talley Corp., The
Tapco Group, Thompson Ramo Wooldridge Inc.
Task Corp.
Technical Apparatus Builders
Western Design, Div.-U. S. Industries, Inc., Santa Barbara Div.
Westinghouse Electric Corp.
Wincharger Corp., Sub.-Zenith Radio Corp.

ALTIMETERS, BAROMETRIC PRESSURE

***AIRESEARCH MFG. CO. DIV.-THE GARRETT CORP.**
Airguide Instrument Co.
Bendix Aviation Corp., Pioneer-Central Div.
A. Biederman, Inc.
Bourns Labs., Inc.
Colvin Labs., Inc.
Computer Instruments Corp.
Consolidated Diesel Electric Corp.
Curtiss-Wright Electronics Div., IMI Branch
Daystrom Pacific Div.-Daystrom, Inc.
Donner Scientific Co.
Fairchild Controls Corp., Components Div.
Kollsman Instrument Corp., Sub.-Standard Coil Products Co. Inc.
***WALLACE O. LEONARD, INC.**
Minneapolis-Honeywell Regulator Co.-Aeronautical Div.
Power-Tronic Systems Inc.
Rahm Instruments, Div.-American Machine & Metals, Inc.
Rosemount Engrg. Co.
Wallace & Tiernan Inc.
Waltham Engrg. Corp.
Waste King Corp., Technical Products Div.
Winzen Research Inc.

ALTIMETERS, RADIO & RADAR

American Machine & Foundry Co., Greenwich
Atlas Precision Products, Co.
Bendix-Pacific Div., Bendix Aviation Corp.
Collins Engrg. Corp.
Dayton Aviation Radio & Equipment Corp.
Electro Development Corp.
Electronic Communications, Inc.
Electronics Div., Van Norman Industries Inc.
Emerson Electric Mfg. Co., The, Electronics & Avionics Div.
Emerson Radio & Phonograph Corp.
General Communication Co.
Gilfillan Bros. Inc.
Hazeltine Electronics Div.-Hazeltine Corp.
ITT Labs.
Lear, Inc.
Litton Industries, Maryland Div.
W. L. Maxson Corp., The
Minneapolis-Honeywell Regulator Co., Ordnance Div.
Motorola Inc., Military Electronics Div.
Ralph M. Parsons Co., The, Electronics Div.
Patterson, Moos Div.-Universal Winding Co., Inc.
Radiation, Inc.
Raytheon Mfg. Co., Government Equipment Div.
Telectro Industries Corp.

ALUMINIZERS, VACUUM
See VACUUM ALUMINIZERS

ALUMINUM FOIL
See FOIL, ALUMINUM

AMMETERS

Assembly Products, Inc.
Beede Electrical Instrument Co. Inc.
Bristol Co., The
Burton-Rogers Co., Sales Div.-Hoyt Electrical Instruments.
Cambridge Instrument Co., Inc.
Columbia Electric Mfg. Co.
Dejur-Amsco Corp., Electronic Sales Div.
Electric Design & Mfg. Co.
Electro-Tech Equipment Co.
Epic, Inc.
General Electric Co., Apparatus Sales Div.
Greibach Instruments Corp.
Helipot Div.-Beckman Instruments Inc.
Hewlett-Packard Co.
Hoyt Electrical Instrument Works, Burton Rogers Co.
Industrial Instruments Inc.
International Instruments Inc.
Marion Instrument Div.
Meters Inc.
Minneapolis-Honeywell Regulator Co., Industrial Product Group
National Electronics
New England Scientific Instruments Co.
Pace Electrical Instruments Co., Inc.
Physics Research Laboratories, Inc.
Rochester Mfg. Co. Inc.
Simpson Electric Co.
Sun Electric Corp., Aeronautical Div.
Technique Associates Div., Duncan Electric Co., Inc.
Triplett Electrical Instrument Co.
Wacline, Inc.
Waters Mfg., Inc.
Westinghouse Electric Corp.
Weston Instruments, Div.-Daystrom, Inc.

AMPLIDYNES

Allis-Chalmers
Bogue Electric Mfg., Co.
General Electric Co., Apparatus Sales Div.
Hoover Electric Co.
Waldom Electronics Inc.
Westinghouse Electric Corp.

AMPLIFIERS

a. Antenna
b. Audio Subminiatures
c. Booster
d. Cathode Followers
e. Compressor
f. Computer
g. Control
h. Cuing
i. Data Recording
j. DC
k. Decade, Audio
l. Development
m. Differential
n. Direct Current
o. Distribution, Audio
p. Distribution, RF & IF
q. Encapsulated
r. Industrial Sound
s. Instrumentation
t. Integrating
u. Intermediate Frequency
v. Isolation
w. Limiting
x. Line
y. Line, Audio
z. Logarithmic
a1. Magnetic
b1. Microphone
c1. Microwave
d1. Mixing Audio
e1. Mixing, RF
f1. Monitoring Audio
g1. Monitoring RF
h1. Noise-Suppressing
i1. Operational
j1. Oscilloscope
k1. Peak Limiting
l1. Photocell
m1. Plug-In
n1. Power
o1. Power, Special Service
p1. Printed Circuit
q1. Servo
r1. Single-Sideband
s1. Stabilizing
t1. Strain Gage
u1. Tone Control
v1. Transistor
w1. Ultrasonic
x1. Vibration Pickup
y1. Wideband, Audio
z1. Wideband, RF

***AC ELECTRONICS DIV., GENERAL MOTORS CORP., q, i-1, p-1, v-1.**
ACF Industries Inc., a, i, j, l, n, q, s, o-1, p-1, q-1.
Acromag Inc., f, j, m, n, q, s, t, v, o-1, i-1, l-1, m-1, q-1, s-1.
Acton Labs. Inc., k.
Adept Industries Inc., p-1.
Adler Electronics, Inc., a, u, d-1, v-1, z-1.
Advanced Electronics, Inc., x-1.
Aeroflex Corp., The, Aeroflex Labs. Div., g, n-1, q-1, s-1, v-1.
Aerolab Development Co., f, g, j, l, m, n, t thru z, o-1, h-1, i-1, k-1, m-1 thru q-1, s-1, t-1, v-1.
Aerolite Electronics Corp., q.
Aeronautical & Instrument Div., Robertshaw-Fulton Controls Co., s-1, v-1.
Aeronutronic Systems, Inc., Sub.-Ford Motor Co., f, p-1.
Aerovox Corp., h, x, y, d-1.
Aetna Electronics Corp., w-1.
Air Logistics Corp., g, h, l, m, q, y, h-1, p-1, x-1.
Airborne Accessories Corp., g, o-1, q-1, v-1.
Airborne Instruments Lab., Div.-Cutler-Hammer, Inc., f, t, u, i-1.
Aircom Inc., c-1.
Aircom Inc. of New Jersey, c-1.
Airpax Electronics Inc., Seminole Div., f, g, l, j, m, n, o-1, m-1, p-1, s-1.
Airtronics International Corp., p-1, v-1.
Alfred Electronics, j.
Allegany Instrument Co., Inc., f, j, m, n, s, t, i-1, t-1.
Alto Scientific Co., Inc., v-1, z-1.
Amelco, Inc., a thru d, g, i, k thru n, s, u, z, e-1, g-1, h-1, i-1, k-1, l-1, n-1, p-1, q-1, s-1, t-1, v-1.
Amerac Inc., c-1.
American Bosch Arma Corp., f, g.
American Electronic Labs., Inc., j, m, s.
American Electronics, Inc., f, g, j, o-1, n-1, q-1, v-1.
American Machine & Foundry Co., Government Products Group, a thru d, g, l, s, c-1, e-1, f-1, n-1, q-1.
American Machine & Foundry Co., Greenwich, a.
American Measurement & Control, Inc., g, j, m, q-1, t-1.
American Missile Products Co., Inc., c, f, g, j, n, q, s, u, i-1, m-1, p-1, v-1, x-1, y-1.
American Printed Circuits Co., Inc., t-1.
American Research & Mfg. Corp., j, n, q, s, t, v, w, o-1, m-1, n-1, e-1, q-1, t-1, v-1, x-1.
Amplifier Corp. of America, w, x, y, n-1.
Anaheim Electronics Co., Inc., n, v-1.
Analogue Controls, Inc., q-1.
Andersen Labs., b thru g, j thru y, o-1, c-1 thru n-1, p-1 thru w-1.
Antlab Inc., i.
Applied Science Corp. of Princeton, l, j, p, s, v-1, z-1.
Abenberg Ultrasonic Lab., Inc., w-1, z-1.
***ARNOUX CORP.**, d, q, s, o-1, q-1, t-1.
Associated Engineers, Inc., e, l, s, v-1, w-1.
Atlantic Instrument Corp., Sub.-American Electronics, Inc., n, q, z.
Atlantic Research Corp., b, d, l, s, b-1, m-1, v-1, x-1, y-1.
Audio Instrument Co., Inc., d, z.
Audio-Master Corp., r, y, o-1, v-1.
Automation Dynamics Corp.,,g, v-1.
Automation Instruments Inc., w-1.
***AVCO MFG. CORP., CROSLEY DIV.**
Avien, Inc., q-1.
B & F Instruments, Inc., i.
B & K Instruments, Inc., k, s, b-1, t-1, x-1.
Baldwin Piano Co., The, Industrial Products Div., d, k, l, o, x, y, b-1, d-1 thru g-1, l-1, n-1, o-1, p-1, y-1, z-1.

Ballantine Labs., Inc., k.
Barber-Colman Co., q-1.
Barker Sales Co., q.
Barker & Williamson Inc., q-1.
Beckman Instruments, Inc., Berkeley Div., j, t, i-1.
Beckman-Systems Div., j, s, t-1.
*BEHLMAN ENGRG. CO., m-1, n-1.
Bell Aircraft Corp., Niagara Frontier Div., j, o-1, c-1, q-1.
Bell & Gossett Co., v-1.
Bell & Howell Co., l, r, s, l-1.
Belock Instrument Corp., a, b, c, f, g, m, n, q, s, t, v, z, n-1, q-1, v-1.
Bendix Aviation Corp., Eclipse-Pioneer Div., f, g, o-1, q-1.
Bendix Aviation Corp., Pioneer-Central Div., w-1.
Bendix Aviation Corp., Red Bank Div., c-1, n-1, o-1, v-1.
Bendix Aviation Corp.-Semiconductor Products, Red Bank Div., v-1.
Bendix Aviation Corp., York Div., d, q, s, c-1, e-1.
Bendix Computer, Div.-Bendix Aviation Corp., j, t.
*BENDIX PRODUCTS DIV., BENDIX AVIATION CORP., g, i, l, n, q, s, o-1, m-1, p-1, q-1, v-1.
Bendix Radio Div., Bendix Aviation Corp., u, v, y, p-1.
Bergen Labs., Inc., d, l, q-1, v-1.
Beva Lab., Inc., d, g, i, w, k-1, s-1, y-1.
A. Biederman, Inc., l.
Bliss Electronic Corp., j, v-1.
Blonder-Tongue Labs., Inc., b, d, i, k, l, o, p, r, u thru y, o-1, c-1, d-1, e-1 g-1, y-1, z-1.
Bogen-Presto Co., Div.-Siegler Corp., The, a, r, y, b-1, f-1, m-1.
Bogue Electric Mfg., Co., g, j, n, o-1, n-1, q-1, v-1, w-1.
Brach Mfg. Corp., Div.-General Bronze, n, o-1, n-1, o-1, q-1, s-1, v-1.
Branson Instruments, Inc., w-1.
Briggs Associates, Inc., f, g, i, r, s-1.
Bristol Co., The, f, g, i, j, m, n, s, t, q-1, t-1.
Brown Engrg. Co., Inc., b, f, g, j, k, l, o, n-1, o-1, p-1, q-1, v-1, y-1, z-1.
Brush Instruments, Div.-Clevite Corp., d, f, g, i, j, l, m, n, s, t, v, x, z, i-1, j-1, n-1, p-1 thru s-1, v-1.
Budelman Electronics Corp., c-1, z-1.
Bulova Watch Co., Electronics Div., b, d, f thru n, p, q, s thru w, z, d-1 thru g-1, i-1, k-1, m-1, n-1, p-1, q-1, v-1.
Bulow Electric Co., a, b, f, i, j, m thru p, s, x, y, c-1, d-1, e-1, n-1, o-1, q-1, s-1, v-1, y-1, z-1.
Burr-Brown Research Corp., f, g, j, k, m, s, t, x, i-1, m-1, p-1, q-1, v-1, w-1, y-1.
Burton-Rodgers, Inc., f, g, l, n, r, t, d-1, n-1 thru q-1, u-1, v-1.
C & K Components, Inc., q, o-1.
California Technical Industries, Div.-Textron Inc., z.
Cameraflex Corp., i.
Carruthers & Fernandez, Inc., b, d, k, l, o, q, x, y, o-1, m-1, o-1.
Cedar Engrg. Div.-Control Data Corp., o-1, v-1.
Celco (Constantine Engrg. Labs. Co.), o-1, v-1.
Centralab, Div.-Globe-Union, b.
Centronix Inc., b, c, d, f thru q, s thru y, c-1 thru k-1, m-1 thru w-1, x-1, y-1, z-1.
Century Electronics & Instruments, Inc., i, s, t.
Chalco Engrg. Corp., e, m, n, s, t, x, y, b-1, i-1, n-1, p-1, q-1, v-1.
Chemold Co., a.
Chesapeake Instrument Corp., b-1, v-1, w-1.
Chicago Aerial Industries, Inc., e, f, i, r, s, t, i-1, m-1, p-1.
Cinema Engrg., y.
Cleveland Instrument Co., m, s.
Cleveland Metal Specialties Co., Electronics Div., b, l, q, p-1.
Coils-Electronics, g, l, s, o-1, q-1, v-1.
G. L. Collins Corp., q-1.
Collins Radio Co.
Colorado Research Corp., f, m, n, t, w, i-1, p-1, q-1, s-1.
Columbia Products Co., a.
Community Engrg. Corp., a, c, p, z-1.
Computer Engrg. Associates, Inc., f, g, i, j, m, n, s, t, v, i-1, t-1, x-1.
Consolidated Avionics Corp., f, g, i, j, n.
Consolidated Controls Corp., g, j, l, n, s, o-1, q-1, v-1.
Consolidated Diesel Electric Corp., f, g, j, s, o-1, m-1, q-1, v-1.
Consolidated Electrodynamics Corp., i, s, t-1, x-1.
Continental Mfg., Inc., n-1.
Control Circuits Inc., g, j, m, q, s, o-1, o-1, q-1, t-1, v-1.
Control Data Corp., o-1.
Cooper Development Corp., Sub.-Marquardt Aircraft Co., a, i, j, l, n, q, s.
Curtiss-Wright Corp., Electronics Div., f, j, s.
Curtiss-Wright Corp., Research Div., z, b-1, w-1.
Curtiss-Wright Corp., South Bend Div., h-1.
Cycle Transformer Corp., o-1.
DBM Research Corp., a, i, l, p, q, u, v, v-1.
D. & R. Ltd., o-1.
Dalmotor Div., Yuba Consolidated Industries, Inc., f, g, j, m, n, q, s, t, u, o-1, i-1, m-1, n-1, p-1, q-1, s-1, v-1.
Data Instruments Div.-Telecomputing Corp., s.
Data-Control Systems, Inc., s.
Datex Corp., j, s.
Datran Electronics, Div.-Mid-Continent Mfg., Inc., q-1.
Daven Co., The, q, x thru z, o-1, g-1, m-1, n-1, p-1, v-1.
Davenport Mfg. Co., j, n, r, s, l-1.
Daystrom Pacific Div.-Daystrom, Inc., f, q-1.
Daystrom Transicoil Div., Daystrom Inc., q-1.
Dayton Aircraft Products, Inc., a, q-1.
Dayton Aviation Radio & Equipment Corp., b, c, g, l, n thru q, u, d-1, e-1, m-1, v-1.
Daytronic Corp., s, t-1.
Delco-Remy Div., General Motors Corp., o-1, e-1, q-1, v-1.
Detronic Industries, g, l-1, q-1.
Di-An Controls, Inc., q-1, v-1.
Digitronics Corp., p-1.
Donner Scientific Co., c, f, g, i, j, m, q, s, t, w, i-1, m-1, o-1, s-1, y-1.
Dorsett Labs., Inc., j, n, m-1.
Doty Acoustica Electronic Labs., b, j, k, l, q, m-1, p-1, v-1.
Douglas Microwave Co., Inc., c-1.
Dresser Industries, Inc., b, d, f, g, i thru o, q thru t, x, y, o-1, b-1, j-1 thru o-1, q-1, s-1, t-1, v-1 thru y-1.
Du Kane Corp., b thru g, j, l thru s, u thru y, o-1, b-1, d-1 thru g-1, m-1 thru q-1, s-1, u-1, v-1, y-1, z-1.
Dynamics Instrumentation Co., Div.-Alberhill Corp., f, i, j, m, n, s, t, v, i-1, m-1, t-1, v-1, z-1, y-1.
Dytronics Co., m.
Edgerton, Germeshausen & Grier, Inc., z, j-1, l-1.
Edin-Div.-Epsco, Inc., j, n-1, t-1, z-1.
Thomas A. Edison Ind. Instrument Div.-Mc Graw-Edison Co., o-1, q-1, v-1.
Elcor, Inc., j, k, n, s, t, j-1, y-1, z-1.
Eldorado Electronics, n, s, t, h-1, k-1.
Electro Development Corp., c, q.
Electro Instruments, Inc., f, g, i, j, k, m, n, s, t, v, i-1, j-1, l-1, m-1, p-1, q-1, t-1, v-1, y-1.
Electro Precision Corp., f, g, j, s, t, i-1, m-1, p-1, q-1, t-1.
Electro Products Laboratories, Inc., g.
Electro-Mechanical Research, Inc., a, c, d, e, f, h, i, j, m.
Electro-Medical Lab., Inc., m.
Electronic Applications, Inc., l, u thru x, b-1, c-1, j-1, v-1, y-1.
Electronic Communications, Inc., f, g, l, q, s thru x, z, o-1, c-1, e-1, g-1, h-1, m-1 thru s-1, v-1, z-1.
Electronic Control Corp., g, l-1.
Electronic Engrg. Co. of California, d, f, g, i, l, k-1, m-1, p-1, v-1.
Electronic Instrument Co., Inc. (EICO), y-1.
Electronic Research Associates, Inc., b, j, v-1.
Electronic Tube Corp., i, j, m, n, s, j-1, l-1, o-1, p-1.
Electronics of Clearfield, Inc., p, j-1.
Electron-Radar Products, l-1.
Electro-Tech Equipment Co., r, k-1.
Elgin Micronics Div.-Elgin National Watch Co., b, i, j, s, p-1, v-1.
Elgin Micronics, West Coast Div.-Elgin National Watch Co., d, f, i, l, m, n, p, s, v, w, x, d-1, h-1, k-1, l-1, p-1.
Emerson Electric Mfg. Co., The, Electronics & Avionics Div., a, d, f, g, i, l, m, p, q, r, t thru w, z, c-1, e-1, h-1, k-1, n-1, p-1, q-1, s-1, v-1.
Emerson Radio & Phonograph Corp., f, g, i, l, p, u, x, z, o-1, c-1, p-1, z-1.
Empire Products Sales Corp., c-1.
Endevco Corp., d, s, z-1.
Engineered Magnetics, Div.-Gulton Industries, Inc., i, j, s.
Ensco, Inc., f, j, i-1, t-1, v-1.
Entron, Inc., a, p, e-1, z-1.
FXR, Inc., c-1, e-1, z-1.
Fairchild Astrionics Div., Fairchild Engine & Airplane Corp., f, g, k, l.
Fairfield Engrg. Corp., g, o-1, n-1, q-1, v-1.
Farmer Electric Products Co., Inc., k-1.
Federal Mfg. & Engrg. Corp., b, l, o, p, s.
Feedback Controls, Inc., f, g, l, o-1, i-1, q-1, v-1.
Ferratron Electronics Co., Inc., b, q, u, m-1, n-1, p-1, q-1, v-1.
Fidelity Amplifier Co., l-1, n-1, v-1.
Fidelity Instrument Corp., o-1, n-1.
Forbes & Wagner, Inc., t.
Ford Instrument Co., Div.-Sperry Rand Corp., b, f, h, m, s, t, o-1, m-1, n-1, q-1.
Forest Electric Co., The., o, q, v, x.
Foto-Video Labs., Inc., c, d, p, v, w, s-1.
Freed Transformer Co. Inc., o-1, w-1.
General Communication Co., c-1.
General Devices, Inc., i, j, l, m, n, p, r, s, t, e-1, j-1, m-1, p-1, v-1, z-1.
General Electric Co., Apparatus Sales Div., o-1, n-1, w-1.
General Electric Co., Computer Dept., f, i, i-1, m-1, p-1.
General Electric Co., Heavy Military Electronics Dept., a thru g, i, l, m, n, p, s, t, u, x, e-1, f-1.
General Magnetics, Inc., o-1, q-1.
Genisco, Inc., n-1, w-1, y-1.
Geotronic Labs. Inc., b thru f, i, k, l, m, q, s, o-1, v-1.
Gilmore Industries, Inc., s.
Good Electronic Corp., d, f, g, l, q, s, m-1, p-1, s-1, t-1.
Gordon Enterprises, i, s.
Goslin Electric & Mfg. Co., z.
Graflex Inc., f, t, q-1.
Guided Missile Div.-De Havilland Aircraft of Canada, Ltd., o-1.
Gulton Industries, Inc., i, v-1, x-1.
Hagen Chemicals & Controls, Inc., j, n.
Hallamore Electronics Co., j, m, s, f-1.
Haller, Raymond & Brown Inc. Div., Singer Mfg. Co., a, l, p, o-1, z-1.
Hallicrafters, a, f, i, j, l, n, p, u, c-1, e-1, r-1, v-1, z-1.
Hamilton Standard, Div.-United Aircraft Corp., f, g, i, j, l, m, n, q, s, t, z, i-1, l-1, n-1 thru q-1, s-1, v-1, x-1.
Hamilton Watch Co., t-1.
Hammarlund Mfg., Co., Inc., u, y, d-1, f-1, r-1, u-1, v-1, y-1, z-1.
Hanson-Gorrill-Brian, Inc., n-1, o-1, q-1, v-1.
Paul Hardeman, Inc.
Harvey-Wells Electronics Inc., f, o-1, m-1, p-1, z-1.
Hays Corp., The, q-1.
Heiland Div.-Minneapolis-Honeywell, i, t, t-1, x-1.
Hewlett-Packard Co., k, n, r, y, c-1, j-1, m-1, n-1, y-1, z-1.
E. Vernon Hill & Co., s.
Hoffman Electronics Corp., Semiconductor Div., l-1.
Hoover Electric Co., c, g, j, l, m, n, o, p, q, s, t, u, w, z, o-1, e-1, n-1, o-1, q-1, v-1.
Walter J. Hyatt Co., The, a, c-1, q-1.
Hycon Mfg. Co., g, j, l, m, n.
I-L-S Instrument Div., The Meriam Instrument Co., t.
ITT Federal Div., International Telephone & Telegraph Corp., a, e, f, g, k, m, o, t, v, w, x, z, o-1, b-1, c-1, i-1, l-1, m-1, n-1, q-1, r-1, s-1, w-1, x-1, y-1.
ITT Labs., l, c-1.
Industrial Control Co., j, o-1, n-1, p-1, q-1, t-1, v-1.
Industrial Television Inc., b, j-1, v-1.
Industrial Test Equipment Co., l, s, t, v, n-1, o-1, q-1.
Instrument Corp. of Fla., g-1, h-1, k-1.
Instrument Development Labs., Inc., s-1, v-1.
Instrument Labs., v-1.
Instrumentation Div.-Amplex Corp., o-1, d-1, y-1.
Instruments For Industry, Inc., a, l, p, s, u, z, o-1, j-1, i-1, v-1, w-1, y-1, z-1.
International Research Associates, a, b, c, k, n, x, z, o-1, n-1, o-1, v-1, x-1, y-1.
Interstate Electronics Corp., z.
ITT-Kellogg, a, w.
J-V-M Microwave Co., c-1, g-1.
Jansky & Bailey, Inc., w, z-1.
E. F. Johnson Co., n-1.
Jordan Co., Inc., The, q-1.
Jordan Electronics, Div.-Victoreen Instrument Co., v-1.
Kaiser Aircraft & Electronics, Div.-Kaiser Industries Corp., b, o-1, c-1, f-1, j-1, r-1, v-1.
Kauke & Co., i, m, n, s, t-1, v-1.
Kay Electric Co., b, s, m-1, v-1.
*KEARFOTT CO., INC., g, l, s, t, o-1, c-1, m-1, q-1.
*KEARFOTT CO., INC., MICROWAVE DIV., o-1.
Keithley Instruments, Inc., j, k, m, n, v.
Kelsey-Hayes Co., d, f, g, n, q-1, i-1, p-1.
Ketay Dept., Norden Div., United Aircraft Corp., f, g, o-1, q-1, v-1.
Keystone Products Co., o-1.
Kin Tel Div.-Cohu Electronics, Inc., g, i, j, m, n, s, i-1, t-1, v-1, w-1, x-1.
Kinevox Div.-Electromation Co., b, i, s, o-1, d-1, t-1.
Kollmorgen Optical Corp., o-1, q-1.
Kollsman Instrument Corp., Sub.-Standard Coil Products Co. Inc., o-1, m-1, q-1.
Land-Air Inc., f, g, i, l, n, s thru v, z, m-1, o-1, p-1, z-1, z-1.
Langevin Div., W. L. Maxson Corp., The, a, b, c, g, h, o, r, v thru y, o-1, b-1, d-1, f-1, m-1, n-1, o-1, u-1, v-1, y-1.
La Pointe Industries Inc., c-1, o-1, p-1, q-1.
Levoie Laboratories Inc., j-1.
Leach Corp., g, i, j, n, q, s, o-1, t-1, v-1.
Lear, Inc., b, d, f, g, l, q, t thru w, o-1, m-1, p-1, q-1, s-1, v-1, z-1.
Lear, Inc., Grand Rapids Div., a, g, l, q, s thru w, o-1, l-1, m-1, p-1, q-1, v-1.
Leeds & Northrup Co., g, j, s.
L E L, Inc., a, b, l, o, t, v, y, b-1, j-1, p-1, u-1, z-1.
Leland Airborne Products, Div.-American Machine & Foundry Co., z.
Levinthal Electronic Products, Inc., c-1, m-1.
*LEWIS ENGRG. CO., THE, s.
Librascope Inc., f, g, q-1.
Ling Electronics, Inc., c, d, e, g, b-1, c-1, n-1, o-1, z-1.
Liquidometer Corp., The, g, r, s, z, q-1, v-1.
Litton Industries, Inc., z.
Litton Industries, Maryland Div., a, u, o-1, m-1.
Lockheed Aircraft Corp., Missiles & Space Div., b, f, i, m, q thru t, c-1, d-1, e-1, g-1, k-1, p-1, v-1.
J. M. Loge, Sound Engineers, r.
MB Mfg. Co., z-1.
MF Electronics Co., b, q.
Magnasync Mfg. Co., Ltd., y.
Magnavox Co., The, t.
Magnetic Controls Co., f, j, q, s, o-1, p-1, q-1, r-1, v-1.
Magnetic Instrument Co. Inc., g, i, j, l, m, n, s, v, m-1, q-1, t-1, v-1.
Magnetic Research Corp., j, o-1.
Magnetico, Inc., g, o-1, q-1, v-1.
Magnetics, Inc., Control Div., o-1.
Maico Electronics, Inc., b, i, p-1, v-1, w-1.
Manson Labs., Inc., m-1.
Massa Div.-Cohu Electronics, Inc., j, l, m, s, m-1, p-1, q-1, s-1, v-1, w-1.
Mast Development Co., Inc., z.
W. L. Maxson Corp., The, a, f, g, l, m, p, s, t, u, x, o-1, c-1, e-1, p-1, q-1, v-1, w-1, z-1.

Mergenthaler Linotype Co., a-1, q-1.
Micro Gee Products, Inc., g, j, m, i-1, m-1, q-1, v-1.
Micrometrical Mfg. Co., s, x-1.
Microwave Associates, Inc., c-1, e-1.
Midwestern Instruments, Inc., i, j, l, m, n, s, t, i-1, t-1, v-1, y-1.
Milgo Electric Corp., d, f, g, i, j, l, m, s, t, v, q-1, v-1.
Minitran Corp., a-1.
Minneapolis-Honeywell Regulator Co.-Aeronautical Div., f, g, n, q-1, v-1.
Minneapolis-Honeywell Regulator Co., Boston Div., f, g, i, j, m, n, s, v, t-1.
Minneapolis-Honeywell Regulator Co., Davies Labs. Div., i, j, s, p-1, q-1.
Minneapolis-Honeywell Regulator Co., Industrial Div., f, g, i, n, s, q-1.
Minneapolis-Honeywell Regulator Co., Industrial Product Group, i, j, m, n, s, p-1, q-1, t-1.
Minneapolis-Honeywell Regulator Co., Ordnance Div., b, k, l, n, q, t, z, h-1, l-1, p-1, v-1.
Miratel, Inc., c, d, j, o, p, r, v, y, b-1, c-1, e-1, f-1, g-1, y-1, z-1.
***MIRAX CHEMICAL PRODUCTS CORP., ELECTRO-MECHANICAL PRODUCTS DIV., a.**
Missouri Research Labs., Inc., j.
Monogram Precision Industries, a, b, v, c-1, h-1, j-1, m-1, n-1, r-1, s-1, u-1 thru z-1.
Moran Instrument Corp., l, n, r, q-1.
Morse Instrument Co., The, g, i, l, s, t, l-1, q-1.
F. L. Moseley Co., z, q-1.
Motorola Inc., Military Electronics Div., b, f, g, i thru l, o, p, q, s thru x, z, a-1 thru s-1, v-1, w-1, y-1, z-1.
Heinz Mueller Eng. Co. Inc., j, l, n.
George L.Nankervis Co., i, r, q-1, v-1.
Narda Microwave Corp., The, b-1.
National Pneumatic Co., Inc., Holtzer-Cabot Divs., a, f, j, k, o, p, q, u, y, b-1, d-1 thru g-1, k-1, m-1, q-1, u-1, v-1, y-1, z-1.
National Ultrasonic Corp., f, k-1, l-1, p-1, v-1.
Navigation Computer Corp.
Naz-Dar Co., p-1.
Neff Instrument Corp., i, j, m, s, v-1, x-1.
Networks Electronic Corp., g, i, j, m, n, q, s, a-1, m-1, n-1, q-1, t-1, v-1, x-1, l.
Newbrook Machine Corp.
North Atlantic Industries, Inc., p-1.
North Electric Co., b, g, l, n, q, s, u, n-1.
Northeast Electronics Corp., b, d, j, n, q, l-1, p-1, v-1.
Northrop Corp., p-1, q-1, v-1.
Norton Co., New Products Dept., q.
Nuclear Products-Erco Div.-ACF Industries, Inc., f.
Offner Electronics Inc., j, m, n, s, q-1, t-1, v-1.
Ohio Semiconductors, Inc., n.
Orbitran Co., Inc., i, j, n, s, v-1.
Ortho Filter Corp., a-1.
Osborne Electronic Sales Corp., a-1.
Pic Design Corp., Sub.-Benrus Watch Co., Inc., m.
Pacific Magnetic Corp., b, a-1.
Paramount Designs Co., f, g, i, s, t, c-1, m-1, q-1, s-1, v-1.
Paraplegics Mfg. Co., Inc., a-1.
Peer, Inc., e, g, w, y, v-1.
Perkin Engrg. Corp., j, n, a-1.
Perry Plastics, Inc., b, l, b-1, f-1, n-1, v-1.
Peschel Electronics, Inc., g.
George A. Philbrick Researches, Inc., c, f, j, s, i-1, m-1, n-1, p-1.
Philco Corp., Government & Industrial Div., b thru g, i, j, l thru u, w thru z, b-1 thru k-1, m-1 thru v-1, y-1, z-1.
Photobell Co., Inc., g, s, a-1, k-1, p-1, v-1.
Photocon Research Products, j, s, t-1.
Photo-Crystals, Inc., b-1, l-1.
Photomation, Inc., l-1.
Photron Instrument Co., i, j, n, s, i-1, m-1, s-1, t-1, x-1.
Polytechnic Research & Development Co., Inc., c-1.
Portchester Instrument Corp., c-1.
Power Supplies Inc., q-1, w-1.
Power-Tronic Systems Inc., b, c, d, f, g, j, l, s, t, v, a-1, i-1, n-1, p-1, q-1, s-1, v-1, y-1.
Precise Development Corp., c, d, f, j, k, l, n, o, s, u, w, b-1, d-1 thru g-1, j-1, n-1, p-1, v-1, y-1, z-1.
Process & Instruments, j, m, s.
Projects Unlimited Inc.
Quan-Tech Labs., g, j, k, m, n, v, j-1, p-1, t-1, v-1.
RS Electronics Corp., l, p, s, u, z, e-1, g-1, n-1, p-1, v-1, z-1.
Radiophone Co. Inc., a thru d, i, l, p, s, u, e-1, m-1, p-1, v-1, w-1, y-1, z-1.
Radiation, Inc.
Radiatronics, Inc., a.
Raytheon Mfg. Co., z.
Raytheon Mfg. Co., Government Equipment Div., c-1.
Reeves Instrument Corp., f, g, j, t, q-1.
Reflectone Corp., The, c, g, a-1, q-1, v-1.
Edw. Renneburg & Sons Co., h-1.
Resdel Engrg. Corp., a, c, l, p, s, u, x, c-1, e-1, n-1, a-1, z-1.
***RHEEM MFG. CO., DEFENSE & TECHNICAL PRODUCTS DIV.**, j, m, p, s, a-1, p-1, v-1, x-1, z-1.
Rixon Electronics Inc., d, j, l, m, q, v-1.
Roanwell Corp., b.
Robot Industries Inc., a-1, l-1.
Royal Industries, Inc., a, f, i, l, q-1.
Rutherford Electronics Co., y-1.
Ryan Aeronautical Co., g, l, n, p-1, q-1.
Safety Electrical Equipment Corp., a-1.
Sage-Craft, Inc., a, c, p, x.
Sanborn Co., j, m, n, s, z, m-1, t-1.
Sangamo Electric Co., a-1, v-1.
Santa Barbara Research Center
Schaevitz Engrg., q-1.
Scientific-Atlanta, Inc., a, q-1, z-1.
H. H. Scott, Inc., b, d, k, l, o, r, s, y, z, b-1, f-1, h-1, j-1, n-1, a-1, w-1, x-1, y-1.
Seeburg Corp., The, a, b, i, s.
Seiscor Mfg. Co., i, j, k, u, e-1, a-1, w-1, x-1.
Sequoia Wire & Cable Co.-Div.-Mandrel Industries, Inc., j, k, l, n, a, v-1.
Servo Corp. of America, p-1.
Servomechanisms, Inc., c, d, f, g, j, l, n, q, s, t, w, a-1, d-1, i-1, l-1 thru q-1, s-1, v-1.
Servomechanisms, Inc., Mechatrol Div., g, s, a-1, q-1, v-1.
Shure Brothers, Inc., x-1.
Sigma Instruments, Inc., a-1.
Signal Transformer Co., a-1.
Singer Mfg. Co., The, Military Products Div., a, f, g, l, p, p-1, q-1, v-1, z-1.
Skiatron Electronics & Television Corp., f, g, i, j, l, t, q-1, v-1, y-1, z-1.
Solar Aircraft Co., v-1.
Southwestern Industries Electronics Co., b, f, g, i, m, n, s, u, a-1, h-1, i-1, j-1, n-1, a-1, q-1, t-1, u-1, v-1, w-1, x-1.
Space Corp., h, l, s, y, a-1.
Specialties, Inc., a-1.
Specialty Engrg. & Electronics Co., l-1.
Spectrol Electronics Corp., j, q-1, v-1.
Sperry Electronic Tube Div., Sperry Rand Corp., c-1.
Sperry Farragut Co., Div.-Sperry Rand Corp., f, s, m-1, p-1, q-1, v-1.
Sperry Gyroscope Co., Marine Div., Div.-Sperry Rand Corp., s-1.
Sperry Microwave Electronics Co., Div.-Sperry Rand Corp., c-1.
Sperry Piedmont Co.-Div.-Sperry Rand Corp., s-1.
Squiers Gage Co., a.
Statham Instruments, Inc., h, i, s, t-1, v-1.
Sterling Precision Corp., Instrument Div., e, f, s, l-1, p-1, v-1.
Strand Engrg. Co., q, u.
Stromberg-Carlson Div.-General Dynamics Corp., g, o, r, f-1, v-1.
Systems Inc., a thru z, a-1 thru z-1.
T-C Div., Dyna-Empire, Inc., l.
Talley Corp., The, a-1.
Tapco Group, Thompson Ramo Wooldridge Inc., f, g, j, a-1, q-1.
Technical Apparatus Builders, M-1, N-1, a-1, v-1.
Technitrol Engrg. Co., n-1, q-1.
Technology Instrument Corp., k, n-1.
Teiner Engrg. Corp., a.
Telechrome Mfg. Corp., b, c, d, f, i, j, l, m, p, q, s, u thru z, z, c-1, e-1, g-1, m-1 thru p-1, r-1, s-1, t-1, v-1, z-1.
Telectro Industries Corp., a thru q, s thru z, a-1 thru v-1, x-1, y-1, z-1.
Tele-Dynamics Inc., b, c, i, j, l, m, s, d-1, m-1, v-1, y-1, z-1.
Telerad Mfg. Corp., u, c-1, z-1.
Television Utilities Corp., p, r, x, f-1.
Tel-Instrument Electronics Corp., p.
Thermo Electric Co., Inc., q-1.
Thomas Electronics, Inc.
Topper Mfg. Co., Inc., q, p-1, v-1, w-1.
Torwico Electronics, Inc., a-1.
Transistor Electronics Corp., f, y, m-1, v-1.
Transonic, Inc., n, q, a-1, m-1, p-1, v-1.
Tresco, Inc., z.
Trionics Corp., b, f, g, l, n, q, s, t, p-1, q-1, v-1, w-1.
Tube-Turns Div., Chemetron Corp., m-1.
Turbo Machine Co., a, d, g, j, s, u.
Twenty-First Century Electronics, Inc., m-1, w-1.
United Control Corp., g, j, m, n, p, a-1, q-1, v-1.
United Electrodynamics, Inc., d, i, j, n, s, n-1, p-1, t-1, v-1, x-1.
U. S. Industries, Inc., a, b, c, g, h, i, m.
U. S. Science Corp., Div.-Topp Industries, Inc., c, e, f, i, l, m, q, s, t, a-1, g-1, r-1, v-1.
United Transformer Co., a-1.
Universal Toroid Coil Winding, Inc., a-1.
Varian Associates, c, l, c-1, n-1.
Vari-L Co., Inc., a-1.
Vicon Corp., p, v, x.
Victor R. F. & Microwave Co., b-1.
Video Instruments Co., Inc., j, m, n, s, i-1, t-1, v-1.
Virginia Electronics Co., Inc., p, w, x, y, d-1, e-1, m-1, n-1, p-1.
Waldorf Electronics. Div.-F.C. Huyck & Sons, f, g, s, i-1, m-1, q-1.
Walkirt Co., b, d, f, k, m, q, m-1, v-1.
Waltham Electronics Corp., z-1.
Warren Components, Div. El-Tronics, Inc., n-1.
Warren Transformer Co., Inc., q, a-1.
Waterman Products Co., Inc., j-1.
Waugh Engrg. Co., q-1, s-1.
Waveline, Inc., c-1.
Webcor, Inc., Government Div., a, f, g, i, m, q, f-1, p-1, v-1.
Westbury Electronics Inc., a, p, q, u, a-1, v-1.
Western Design, Div.-U.S. Industries, Inc., Santa Barbara Div. , s.
Western Gear Corp., q-1.
Westinghouse Electric Corp., a, c, f, j, k, l, p, a-1, c-1, n-1, q-1, r-1, v-1, y-1, z-1.
Weston Hydraulics Ltd.-Sub., Borg-Warner Corp., q-1.
Weston Instruments, Div.-Daystrom, Inc., g, j, m, n, t, n-1.
Westronics Inc., g, i, s, q-1, t-1.
Wheeler Electronic Corp., Sub.-Sperry Rand Corp., b, j, n thru q, s, u thru y, a-1, c-1, n-1, a-1, p-1, v-1.
Winder Aircraft Corp. of Florida, a, j-1.
Winzen Research Inc., s.
Worner Electronic Devices, q.
Wright Engrg. Co., p, c-1, e-1, g-1, z-1.
Wye Industries, w-1.
Zacharias Electronics Corp., b, d, k, l, o, s, u, v, y, b-1, d-1, f-1, j-1, p-1, u-1, v-1, w-1, x-1, y-1.

ANALYSIS EQUIPMENT, ELECTRO-CHEMICAL

American Instrument Co., Inc.
Analytical Instruments, Inc.
R. B. Annis Co.
Beckman-Scientific & Process Instruments Div.
Bendix Aviation Corp., York Div.
Bergen Labs., Inc.
Bristol Co., The
Consolidated Electrodynamics Corp.
Delsen Corp.
Fisher Scientific Co.
Furane Plastics, Inc.
General Electric Co., X-Ray Dept.
Hughes Tool Co., Aircraft Div.
Industrial Instruments Inc.
Jarrell-Ash Co.
Harold Kruger Instruments
Leeds & Northrup Co.
National Spectrographic Labs., Inc.
New England Scientific Instruments Co.
Perkin-Elmer Corp.
Milton Roy Co.

ANALYSIS EQUIPMENT, MAGNETIC
See MAGNETIC ANALYSIS EQUIPMENT

ANALYZERS

a. Antenna Pattern
b. Audio Amplifier
c. Cable
d. Capacitor
e. Circuit
f. Coincidence
g. Crystal
h. Differential
i. Differential Computer
j. Digital
k. Dimensional
l. Distortion
m. Electro-Chemical
n. Engine
o. Flight
p. Frequency
q. Gas
r. Ignition
s. Infrared
t. Intermodulation
u. Internal Combustion
v. Magnetic
w. Microwave
x. Neutron Absorption
y. Noise
z. Phase
a1. Radar
b1. Servo
c1. Spectrum
d1. Spectrum, nuclear
e1. Stress Surface
f1. Transducer
g1. Transistor
h1. Ultrasonic
i1. Vibration
j1. Wave
k1. Waveform

Advanced Electronics, Inc., i-1.
Aeroflex Corp., The, Aeroflex Labs. Div., a.
Aetna Electronics Corp., b-1.
Air Logistics Corp., d, e, j, z, b-1.
Airborne Instruments Lab., Div.-Cutler-Hammer, Inc., a.
Aircom Inc. of New Jersey, w.
***AIRESEARCH MFG. CO., DIV.-THE GARRETT CORP.**, n, e-1.
Airpax Electronics Inc., Seminole Div., p.
Amelco, Inc., e, c-1.
American Electronic Labs., Inc., c-1, g-1.
American Electronics, Inc., American Nuclear Div., d-1.
American Electronics, Inc., Taller & Cooper Div., m, q.
American Machine & Foundry Co., Government Products Group, a, b, p, a-1, b-1.
American Machine & Foundry Co., Greenwich, s, v, w, z, a-1, b-1.
American Research & Mfg. Corp., l, p, c-1, i-1.
Analytical Instruments, Inc., m.
Antlab Inc., a.
Applied Radiation Corp., v.
Applied Research Labs., Inc., c-1.
Applied Science Corp. of Princeton, p, y, b-1, i-1.
Audio Instrument Co., Inc., l.
Automation Dynamics Corp., c.
Avien, Inc., n, i-1.
Axler Associates Inc., q, s.
B & H Instrument Co., Inc., n, p.
B & K Instruments, Inc., b, l, p, y, c-1, i-1.
Baird-Atomic, Inc., q, s, d-1, g-1.
Barker & Williamson Inc., l.
***BAUSCH & LOMB OPTICAL CO.**, s, c-1.
Beckman-Scientific & Process Instruments Div., m, q, s.
Bendix Aviation Corp., York Div., a, p, w, z, j-1, k-1.

Bendix Computer, Div.-Bendix Aviation Corp., i, j.
*BENDIX PRODUCTS DIV., BENDIX AVIATION CORP., n, s.
Bendix Radio Div., Bendix Aviation Corp., a, a-1.
Bergen Labs., Inc., m, t, h-1.
Beva Lab., Inc., f, h, d-1, k-1.
Blonder-Tongue Labs., Inc., l, j-1, k-1.
Bogue Electric Mfg., Co., c, n, a.
Briggs Associates, Inc., f-1, k-1.
Bristol Co., The, e, m.
Brunswick Instruments, z.
Brush Instruments, Div.-Clevite Corp., h, i, j, l thru o, s, v, w, a-1, b-1, d-1, e-1, f-1, h-1, j-1.
Bulow Electric Co., j, p, w, b-1.
CGS Labs., Inc., c-1.
California Technical Industries, Div.-Textron Inc., a, c, d, e, w, g-1.
Carol Electronics Corp., k-1.
Centronix Inc., b, h thru l, a-1, g-1.
Chesapeake Instrument Corp., a, j, f-1.
Chicago Aerial Industries, Inc., d.
Chrysler Corp., Defense Operations Div., p.
Clary Dynamics, j, b-1, f-1.
Cleveland Instrument Co., k.
Collins Microflat Co.
Consolidated Avionics Corp., g-1.
Consolidated Diesel Electric Corp., c, e, i, j, f-1, g-1.
Consolidated Diesel Electric Corp., Western Div., m, n.
Consolidated Electrodynamics Corp., m, q, e-1, f-1, i-1.
Cornell-Dubilier Electric Corp., d.
James Cunningham Son & Co., Inc., e.
Curtiss-Wright Electronics Div., IMI Branch, f-1, g-1.
Curtiss-Wright Corp., Research Div., y.
Dalmotor Div., Yuba Consolidated Industries, Inc., i.
Davis Instruments, q.
Dayton Aviation Radio & Equipment Corp., b, e.
Dearborn Electronic Labs., d.
Decker Corp., The, p, c-1, i-1.
Demornay-Bonardi, p, w, c-1.
Di-An Controls, Inc., j, v.
W. C. Dillon & Co., Inc., f-1.
Dit-MCO, Inc., Electronics Div., c, e.
Divco-Wayne Electronics, Div.-Divco-Wayne Corp., a.
Donner Scientific Co., h, i, t, b-1, f-1, j-1, k-1.
Douglas Microwave Co., Inc., w, a-1.
Dresser Industries, Inc., b, j, p, f-1, i-1.
Dymec Inc., v.
Dytronics Co., y.
Edin-Div.-Epsco, Inc., c-1, k-1.
Thomas A. Edison Ind. Instrument Div.-Mc Graw-Edison Co., b-1.
Eldorado Electronics, f, d-1.
Electro Instruments, Inc., d, j.
Electro Products Laboratories, Inc., e-1, i-1.
Electronic Applications, Inc., l, t.
Electronic Communications, Inc., e, p, s, w, z, a-1.
Electronic Research Associates, Inc., g-1.
Electronic Tube Corp., a-1.
Electro-Tech Equipment Co., c, d, e, y, i-1.
Elgin Micronics, West Coast Div.-Elgin National Watch Co., f-1.
El Ray Motor Co., Inc., c.
Emerson Electric Mfg. Co., The, Electronics & Avionics Div., a.
Emerson Radio & Phonograph Corp., j, w, z, a-1, g-1.
Empire Products Sales Corp., a, l, w, y, a-1, k-1.
Endevco Corp., f-1, i-1.
Engelhard Industries, Inc., q.
Epic, Inc., i-1.
FXR, Inc., a, w, y, c-1, k-1.
Fairchild Astrionics Div., Fairchild Engine & Airplane Corp., g-1.
Federal Products Corp., k.
Federal Scientific Corp., c-1.
Ferrotran Electronics Co., Inc., y, g-1.
Finney Co., The, a.
Fisher Scientific Co., m, q.
Forbes, George F., Industrial Mathematician, h, i, j.
Freed Transformer Co. Inc., l.
Furane Plastics, Inc., l, m.
General Communication Co., w, c-1.
General Electric Co., Apparatus Sales Div., h.
General Electric Co., X-Ray Dept., m, c-1, d-1.
General Electrodynamics Corp., c-1.
General Scientific Equipment Co., k-1.
Graflex Inc., b, a-1.
Gulton Industries, Inc., h-1, i-1.
Haller, Raymond & Brown Inc. Div., Singer Mfg. Co., s, k-1.
Hallicrafters, a, t, a-1.
Hallikainen Instruments, q.
Hamilton Standard, Div.-United Aircraft Corp.
Harvey-Wells Electronics Inc., j, v, b-1.
Hays Corp., The., q.
Hazeline Electronics Div.-Hazeltine Corp., c-1.
Hewlett-Packard Co., l, y, j-1, k-1.
Hitemp Wires Inc., c.
Hoffman Electronics Corp., Semiconductor Div., s, c-1, g-1.
Hoover Electric Co., g-1.
Hughes Tool Co., Aircraft Div.
Walter J. Hyatt Co., The, a, v, w, a-1, b-1, j-1, k-1.
ITT Federal Div., International Telephone & Telegraph Corp., a, d, e, f, h, j, l, n, o, p, s, t, v thru y, b-1, c-1, a-1 thru i-1, k-1.
Industrial Control Co., b-1.
Industrial Instruments Inc., c, m, q.
Industrial Test Equipment Co., l, p, z, b-1, k-1.
Insco Co., Div.-Barry Controls Inc., i-1.
Instrument Labs., e.
International Research & Development Corp., i-1.
International Wire & Cable Co., c.
Interstate Electronics Corp., f, d-1.
Itek Corp., w, c-1.
Jansky & Bailey, Inc., a, p.
Jarrell-Ash Co., m, c-1.
Jefferson Electronic Products Corp., c.
Johnson-Williams, Inc., q.
Kahn & Co., Inc., i-1.
Kaiser Aircraft & Electronics, Div.-Kaiser Industries Corp., c, a, w.
Kay Electric Co., a thru e, g, p, y, c-1, g-1, i-1, j-1.
*KEARFOTT CO., INC., j, w, z, b-1, g-1, j-1, k-1.
Kingston Electronics-Div.-Kingston Industries Inc., e.
Harold Kruger Instruments, q.
Land-Air Inc., j, n, o, u, v, x, f-1, i-1.
La Roe Instruments, Inc., j.
Lavoie Laboratories Inc., e, c-1.
Leeds & Northrup Co., m, q, s.
Ling Electronics, Inc., c-1.
Lockheed Aircraft Corp., Missiles & Space Div., a.
MB Mfg. Co., i-1.
Magnaflux Corp., v, e-1.
Marconi Instruments, l, t, c-1, j-1.
Measurements Div., McGraw Edison Co., t.
J. E. Menaugh Co., r.
Micrometrical Mfg. Co., b, k, p, f-1, g-1, i-1.
Mine Safety Appliances Co., m, q, s, y.
Minneapolis-Honeywell Regulator Co.-Davies Labs. Div., p, c-1, i-1, j-1.
Minneapolis-Honeywell Regulator Co., Industrial Product Group, p, q, c-1, k-1.
Missouri Research Labs., Inc., a-1.
Monogram Precision Industries, a, b, d, k, s, v, w, a-1, m-1, j-1.
Motorola Inc., Military Electronics Div., g thru j, p, t, w, y, z, a-1, b-1, g-1, h-1, k-1.
NRC Equipment Corp., q.
George L Nankervis Co., n, r, b-1.
Narda Microwave Corp., The, u.
National Instrument Laboratories, Inc., q.
National Pneumatic Co., Inc., Holtzer-Cabot Divs., b-1.
National Spectrographic Labs., Inc., b-1, c-1.
North Atlantic Industries, Inc., z.
Northeastern Engrg. Inc., c-1.
Northrop Corp., i, j.
Northrop Corp., The, Nortronics Div., d, e, i, s, w.
Norton Co., New Products Dept., m.
Optimized Devices, Inc., c, d.
Pacific Scientific Co., i-1.
Paco Electronics Co., Inc., d, e, g-1.
Paramount Designs Co., i, j, l.
Perkin-Elmer Corp., m, s, c-1.
Peschel Electronics, Inc., c, e.
Philco Corp., Government & Industrial Div., e, j, s, w, a-1, g-1.
Physics Research Laboratories, Inc., e.
Pioneer Industries Div., Almar-York Co. Inc., q, s, e-1, h-1.
Polarad Electronics Corp., p, w, a-1, b-1, c-1.
Polytechnic Research & Development Co., Inc., w, c-1.
Power-Tronic Systems Inc., v, b-1, f-1, g-1.
Precise Development Corp., b, d, l.
Precision Apparatus Co., Inc., e, g-1.
Probescope Co. Inc., l, p, c-1, k-1.
Process & Instruments, q.
Projects Unlimited Inc., c.
Quan-Tech Labs., t, y, c-1, j-1, k-1.
Radiation, Inc.
Radiation Instrument Development Lab., Inc., f, h, d-1.
Radionics, Inc., h-1.
Railway Communications Inc., j-1.
Raytheon Mfg. Co., c-1, i-1, j-1, k-1.
Edw. Renneburg & Sons Co., u.
Republic Aviation Corp., e.
Rese Engrg., Inc., v.
Milton Roy Co., m.
Scientific-Atlanta, Inc., a.
H. H. Scott, Inc., p, y, i-1.
Servo Corp. of America, b-1.
Sheffield Corp., The, Sub.-Bendix Aviation Corp., k.
Singer Mfg. Co., The, Military Products Div.
Snap-on Tools Corp., n.
Solartron Inc., e, l, y, z, b-1, i-1, j-1.
Space Corp., g-1, i-1, k-1.
Sperry Gyroscope Co., Marine Div., Div.-Sperry Rand Corp., j, n.
Sperry Microwave Electronics Co., Div.-Sperry Rand Corp., p, w, a-1, c-1.
Sperry Piedmont Co.-Div.-Sperry Rand Corp., n.
Sun Electric Corp., Aeronautical Div., n, p, q, r, i-1.
Superior Cable Corp., c.
Systems Inc., a-1, b-1, c-1, k-1.
Technical Apparatus Builders, e.
Telechrome Mfg. Corp., f, h, i, j, t, w, z, k-1.
Telectro Industries Corp., b, c, d, f, i, j, o, p, r, s, t, z, a-1, b-1, i-1, j-1.
Tele-Dynamics Inc., t, z.
Telerad Mfg. Corp., p, w, a-1.
Tel-Instrument Electronics Corp., i-1.
Theta Instrument Corp., y, z, a-1.
Towaco Electronics, l, p.
Turbo Machine Co., a, b, e, f, w.
United Electrodynamics, Inc., f-1.
U. S. Industries, Inc.
Varian Associates, v, a-1, c-1.
Victor R. F. & Microwave Co., w.
Victory Engrg. Corp., q.
Virginia Electronics Co., Inc., b, e.
Waldorf Electronics. Div.-F.C. Huyck & Sons, a-1, b-1.
Wang Labs., Inc., f, j.
Waste King Corp., Technical Products Div., a.
Waterman Products Co., Inc., z, k-1.
Waveline, Inc., w.
Weinschel Engrg., a, w.
Western International Co., c.
Weston Hydraulics Ltd.-Sub., Borg-Warner Corp., b-1.
Weston Instruments, Div.-Daystrom, Inc., j, p.
Wintronics, z.
Wright Engrg. Co., a, p, t, y, c-1, i-1.
Wye Industries, h-1.

ANEMOMETERS

Aero Research Instrument Co. Inc.
Beckman & Whitley, Inc., Missile Products Div.
Bendix Aviation Corp., Friez Instrument Div.
Epic, Inc.
Flow Corp.
E. Vernon Hill & Co.
Illinois Testing Laboratories, Inc.
Instruments Corp., The
M. C. Stewart
Strong Scott Mfg. Co., The
Victory Engrg. Corp.
Westberg Mfg. Co.
Wilks Precision Instrument Co., Inc.

ANGLE DRIVES

Acton Labs. Inc.
Actuator Products Div., Geartronics Corp.
Airborne Accessories Corp.
Curtiss-Wright Corp.-Wright Aeronautical Div.
Electronic Communications, Inc.
Foote Bros. Gear & Machine Corp.
Hoover Electric Co.
Interstate Engrg. Corp.
Lear, Inc.
Lear, Inc., Grand Rapids Div.
Machinery Sales & Engrg. Co.
Metron Instrument Co.
Robot Industries Inc.
Sargent Engrg. Corp.
F. W. Stewart Corp.
Talley Corp., The
George A. Terry Co.
Vard Inc.
Waste King Corp., Technical Products Div.
Western Gear Corp.

ANNUNICATORS

Thomas A. Edison Ind. Instrument Div.-Mc Graw-Edison Co.
*ETS-HOKIN & GALVAN
Haller, Raymond & Brown Inc. Div., Singer Mfg. Co.
Litton Industries, Inc.
National Pneumatic Co., Inc., Holtzer-Cabot Divs.
Scam Instrument Corp., The
Stackpole Carbon Co.
Technical Apparatus Builders

ANODES, GRAPHITE

Belmont Smelting & Refining Works, Inc.
J. Bishop & Co., Platinum Works
Division Lead Co.
Engelhard Industries, Inc.
Helwig Carbon Products, Inc.
Ohio Carbon Co., The
Squiers Gage Co.
Wallace & Tiernan Inc.

ANODES, METAL

Allied Research Products, Inc.
Alpha Metals, Inc.
Aluminum Co. of America
American Brass Co., The
American Silver Co.
American Smelting & Refining Co.
Attleboro Refining Co., Inc.
Bram Metallurgical & Chemical Co.
Bridgeport Brass Co.
Chase Brass & Copper Co., Inc.
Dayton Aircraft Products, Inc.
Division Lead Co.
Eastern Smelting & Refining Corp.
Giannini Plasmadyne Corp.
Handy & Harman
I-T-E Circuit Breaker Co.
Kolcast Industries-Div.-Thompson Ramo Wooldridge Inc.
W. L. Maxson Corp., The
Metals & Controls Corp., General Plate Div.
Mueller Brass Co.
Research Development Mfg. Inc.
Sel-Rex Corp.
Standard Metals Corp.
Waldom Electronics Inc.
Wildberg Bros. Smelting & Refining Co.

ANTENNA FEED SYSTEMS

Ainslie Corp.
All Products Co.
American Aeroparts
American Machine & Foundry Co., Government Products Group
American Machine & Foundry Co., Greenwich
Coaxial Connector Co. Inc.
Collins Radio Co.

Cooper Development Corp., Sub.-Marquardt Aircraft Co.
DBM Research Corp.
Dayton Aircraft Products, Inc.
Douglas Microwave Co., Inc.
Emerson Electric Mfg. Co.,-The, Electronics & Avionics Div.
***ETS-HOKIN & GALVAN**
Gabriel Co., The, Gabriel Electronics Div.
Goodyear Aircraft Corp.
Haller, Raymond & Brown Inc. Div., Singer Mfg. Co.
Hallicrafters
Instruments For Industry, Inc.
Jansky & Bailey, Inc.
E. F. Johnson Co.
***KEARFOTT CO., INC.**
***KEARFOTT CO., INC., MICROWAVE DIV.**
D. S. Kennedy & Co.
Meridian Metalcraft, Inc.
Microwave Associates, Inc.
Monogram Precision Industries
Motorola Inc., Military Electronics Div.
N. R. K. Mfg. & Engrg. Co.
National Pneumatic Co., Inc., Holtzer-Cabot Divs.
Philco Corp., Government & Industrial Div.
Prodelin Inc.
Radiation, Inc.
Royal Industries, Inc.
Scientific-Atlanta, Inc.
Shaw Metal Products Corp.
Sperry Microwave Electronics Co., Div.-Sperry Rand Corp.
Stavid Engrg., Inc.
Technical Appliance Corp.
Teiner Engrg. Corp.
Telerad Mfg. Corp.
Thermal Refractories Corp.
Transco Products, Inc.
Turbo Machine Co.
U. S. Science Corp., Div.-Topp Industries, Inc.
Washington Aluminum Co., Inc.
Webcor, Inc., Government Div.
Wilcox-Crittenden Div., North & Judd Mfg. Co.
Wind Turbine Co.
Z & W Mfg. Corp.

ANTENNA FITTINGS & ACCESSORIES

Ainslie Corp.
Aircom Inc. of New Jersey
All Products Co.
American Machine & Foundry Co., Government Products Group
American Machine & Foundry Co., Greenwich
Anchor Metal Spinning Co., The
Basco Metal Products, Inc.
Beaver Precision Products Inc.
Blaco Mfg. Co.
CGS Labs., Inc.
Capital City Mfg. Co.
Coaxial Connector Co. Inc.
Collins Radio Co.
Dayton Aircraft Products, Inc.
Douglas Microwave Co., Inc.
Thomas A. Edison Ind. Instrument Div.-Mc Graw-Edison Co.
Elsin Electronics Corp.
Emerson Electric Mfg. Co., The, Electronics & Avionics Div.
Empire Products Sales Corp.
Finney Co., The
Ford Instrument Co., Div.-Sperry Rand Corp.
GAR Mfg. Corp.
Gabriel Co., The, Gabriel Electronics Div.
General Electric Co., Missile & Space Vehicle Dept.
General R-F Fittings, Inc.
Gladding, McBean & Co.
Highland Rim Machine Works Inc.
Hi-Lo Manufacturing Corp.
***HOUDAILLE INDUSTRIES, INC., BUFFALO HYDRAULICS DIV.**
Walter J. Hyatt Co., The
Isolantite Mfg. Corp.
E. F. Johnson Co.
K-W Engrg. Works
***KEARFOTT CO., INC.**
D. S. Kennedy & Co.
Lamtex Industries, Inc.
La Pointe Industries Inc.
Mercury Tool & Mfg. Corp.
Meridian Metalcraft, Inc.
Monogram Precision Industries
Motorola Inc., Military Electronics Div.
National Beryllia Corp.
National Pneumatic Co., Inc., Holtzer-Cabot Divs.
Precision Shapes, Inc.
Prodelin Inc.
Radiatronics, Inc.
Scientific-Atlanta, Inc.
Shallcross Mfg. Co.
Stainless Inc.
Stanley-Judd Div.-The Stanley Works
Talley Corp., The
Tapco Group, Thompson Ramo Wooldridge Inc.
Technical Appliance Corp.
Teiner Engrg. Corp.
Telectro Industries Corp.
Telerad Mfg. Corp.
Transco Products, Inc.
Tricraft Products Corp.
Turbo Machine Co.
U. S. Science Corp.
U. S. Industries, Inc.
Wilks Precision Instrument Co., Inc.
Wind Turbine Co.
Z & W Mfg. Corp.

ANTENNA FORMS
See FORMS, ANTENNA

ANTENNA LINKS
See LINKS, ANTENNA

ANTENNA OUTLETS
See OUTLETS, ANTENNA

ANTENNA SWITCHING EQUIPMENT
See SWITCHING EQUIPMENT, ANTENNA

ANTENNA TOWER LIGHTING

Allied International Co.
Anchor Metal Spinning Co., The
Barker & Williamson Inc.
Collins Radio Co.
Douglas Microwave Co., Inc.
Dresser-Ideco Co., Div.-Dresser Industries, Inc.
Stainless Inc.
Teiner Engrg. Corp.
Telectro Industries Corp.
Wind Turbine Co.

ANTENNA TUNING UNITS

American Machine & Foundry Co., Government Products Group
Collins Radio Co.
Electronic Communications, Inc.
Ford Instrument Co., Div.-Sperry Rand Corp.
General Electric Co., Missile & Space Vehicle Dept.
Walter J. Hyatt Co., The
I-T-E Circuit Breaker Co.
ITT Federal Div., International Telephone & Telegraph Corp.
E. F. Johnson Co.
Lear, Inc.
Lear, Inc., Grand Rapids Div.
W. L. Maxson Corp., The
Meridian Metalcraft, Inc.
Monogram Precision Industries
National Pneumatic Co., Inc., Holtzer-Cabot Divs.
Philco Corp., Government & Industrial Div.
Radiation, Inc.
Radiatronics, Inc.
Sage-Craft, Inc.
Seiscor Mfg. Co.
Teiner Engrg. Corp.
Telectro Industries Corp.
Turbo Machine Co.

ANTENNAS
a. Direction Finding
b. Fixed Station
c. High Frequency
d. Loop-Direction Finder
e. Low Frequency
f. Microwave-Radar
g. Mobile Commercial
h. Mobile Communication
i. Radar
j. Radiation Test
k. Rotary Beam
l. Slotted Line
m. Ultra High Frequency
n. Very High Frequency

ACF Industries Inc., e, m, n.
Adler Electronics, Inc., f, h, m, n.
Aerodex, Inc., i.
Aeronca Mfg. Corp., i.
Ainslie Corp., c, f, i, m, n.
Airborne Instruments Lab., Div.-Cutler-Hammer, Inc., j.
Aircom Inc., f, i, j, l, m, n.
Aircom Inc. of New Jersey, f, i.
Airtron Inc., Div.-Litton Industries, f.
Alford Mfg. Co., m, n.
All Products Co., a, b, c, e thru i, k, m, n.
Allied International Co., b, c, d, g, h, n.
Allied Research & Engrg., Div.-Allied Record Mfg. Co.
Allison Steel Mfg. Co., b, f, i.
Alpar Mfg. Corp., b, e.
American Aeroparts, a.
American Aerophysics Corp.
American Aluminum Co., i.
American Electronic Labs., Inc., f, i, l, m, n.
American Machine & Foundry Co., Government Products Group, b, c, e, f, g, i thru n.
American Machine & Foundry Co., Greenwich, a, b, c, e, f, h, i, k, l, m, n.
Andrew Corp., b, f, h, l, m, n.
Antenna & Radome Research Associates, f, l, m, n.
Antenna Specialists Co., The, a, c, e, g, h, m, n.
Atlas Precision Products, Co., a, f, i.
Automation Dynamics Corp., a, f, l, m.
***AVCO MFG. CORP., CROSLEY DIV.**, i.
Basco Metal Products, Inc., i.
Rex Bassett, Inc., g, h, k.
Beaver Precision Products Inc., i.
Bell Aircraft Corp., Niagara Frontier Div., c, f, i, m.
Belock Instrument Corp., i.
Bendix Aviation Corp., Eclipse-Pioneer Div., i.
Bendix Aviation Corp., York Div., f, j, l.
Bendix Radio Div., Bendix Aviation Corp., a, d, f, n.
Blaw-Knox Equipment, Div.-Blaw-Knox Co., f, i, m, n.
E. W. Bliss Co., i.
Bogart Mfg. Corp., f, m, n.
Bowser, Inc., Defense Dept., e, i.
Brach Mfg. Corp., Div.-General Bronze, h.
Brooks & Perkins, Inc., f. i.
Budd Stanley Co. Inc., f, i, l.
Bulow Electric Co., a, c, d, f, i, k thru n.
California Technical Industries, Div.-Textron Inc., j, l.
Canoga Div., Underwood Corp., f, i, j, m, n.
Chemold Co., a thru e.
Coaxial Connector Co. Inc., h, i.
Collins Radio Co., a, b, c, e thru k, m, n.
Columbia Products Co., c, e, g, h, m, n.
Communications Co., b, g, h.
Communications Research Co., h, n.
Cooper Development Corp., Sub.-Marquardt Aircraft Co., c, h, m, n.
DBM Research Corp., f, i.
Dayton Aircraft Products, Inc., a, c, e, m, n.
Dayton Aviation Radio & Equipment Corp., a, c, d, e, n.
Demornay-Bonardi, f.
Diamond Antenna & Microwave Corp., c, e, f, i, j, l, m, n.
Diversey Engrg. Co., i.
Dorne & Margolin, Inc., a, c, d, f, l, m, n.
Douglas Microwave Co., Inc., f, i, l.
Dresser Industries, Inc., f, i.
Dresser-Ideco Co., Div.-Dresser Industries, Inc., a, b, c, e, f, i.
Electro-Mechanical Products Co., f, i, m, n.
Electronic Specialty Co., c, l, m, n.
Emerson Electric Mfg. Co., The, Electronics & Avionics Div., f, i, j, l.
Emerson Radio & Phonograph Corp., f, m, n.
FXR, Inc., f, l.
Fairchild Astrionics Div., Fairchild Engine & Airplane Corp., a, b, c, f, l, m.
Finney Co., The, a, c, e, m, n.
Ford Instrument Co., Div.-Sperry Rand Corp., i.
Freeman Co., The, a, f, g, n.
Furane Plastics, Inc., i.
GAR Precision Parts, Inc., f, m.
Gabriel Co., The, Gabriel Electronics Div., a thru i, k thru n.
General Communication Co., f.
General Precision Lab. Inc., f.
Gladding, McBean & Co., f, i.
John Gombos Co., Inc., f.
Goodyear Aircraft Corp., a, b, c, e, f, i, m, n.
Gulton Industries, Inc., a, b, c, f, i, k thru n.
Haller, Raymond & Brown Inc. Div., Singer Mfg. Co., c, f, l, m, n.
Hallicrafters, c, f, h, i, l, m.
Hazeltine Electronics Div.-Hazeltine Corp., f, i, j, m, n.
Hi-Lo Manufacturing Corp., a thru n.
Houston Fearless Corp., f, g.
Hughes Aircraft Co., f, h, i.
Hughes Tool Co., Aircraft Div., c, e, f, i, j, l, m, n.
Walter J. Hyatt Co., The, a, b, f, i, k, l.
I.D.E.A., Inc., h.
I-T-E Circuit Breaker Co., a thru n.
ITT Federal Div., International Telephone & Telegraph Corp., d, f, i, k.
ITT Labs., a thru f, h thru n.
Indusl. Prod.-Danbury Knudsen Div. Amphenol-Borg Electronics Corp., g.
Intercontinental Mfg. Co., Inc., f, i.
JFD Electronics Corp., m.
J-V-M Microwave Co., f, i.
Jansky & Bailey, Inc., a thru e, h, j.
E. F. Johnson Co., b, k.
K-W Engrg. Works, g, h.
Kaiser Aircraft & Electronics, Div.-Kaiser Industries Corp., j.
***KEARFOTT CO.**, a, d, f, i, j.
***KEARFOTT CO., INC., MICROWAVE DIV.**, f.
Kelsey-Hayes Co., f, i.
D. S. Kennedy & Co., f, i, m, n.
Herb Kreckman Co., b, h, n.
La Pointe Industries Inc., a, c thru f, i.
Lear, Inc., a, d, n.
Lear, Inc., Grand Rapids Div., a, d, n.
Leitch-Huard Corp., g, h, m, n.
Lieco, Inc., f, h.
Litton Industries, Inc., f, i.
Litton Industries, Maryland Div., a, thru n.
Lockheed Aircraft Corp., Missiles & Space Div., c, f, i, l, m, n.
Longren Aircraft Co., Inc., i.
Lundy Mfg. Corp., e.
Magnavox Co., The, d, i.
Mark Products Co., b, c, g, h, j, m, n.
W. L. Maxson Corp., The, a, c, f, i, l, m, n.
Meridian Metalcraft, Inc., a, f, i, j, l, m, n.
Minnesota Mining & Mfg. Co., i.
***MIRAX CHEMICAL PRODUCTS CORP., ELECTRO-MECHANICAL PRODUCTS DIV.**, e.
Monogram Precision Industries, a thru i, k, l, m, n.
Mosley Electronics, Inc., b, c, h, k, n.
Motorola Inc., Military Electronics Div., a thru d, f thru i, l, m, n.
N. R. K. Mfg. & Engrg. Co., f, i.
Narmco Mfg. Co., a thru f, h thru n.
National Pneumatic Co., Inc., Holtzer-Cabot Divs., a thru e, g, h, i, m, n.
Nuclear Products-Erco Div.-ACF Industries, Inc., i.
Ralph M. Parsons Co., The, Electronics Div., m, n.
Permax Products Div., Chisholm-Ryder Co., Inc., b, c, g, h, m, n.
Philco Corp., Government & Industrial Div., a, b, c, f thru n.

Photo-Crystals, Inc., f.
Plastic Age Sales, Inc.
Polarad Electronics Corp., f.
Portchester Instrument Corp., e.
Prodelin Inc., f, h.
Radiation, Inc.
Radiatronics, Inc., a thru f, i thru n.
Raytheon Mfg. Co.
Raytheon Mfg. Co., Government Equipment Div., f, i.
Republic Aviation Corp., a thru f, i, j, m, n.
Resdel Engrg. Corp., f.
Rixon Electronics Inc.
Royal Industries, Inc., a thru e.
Ryan Aeronautical Co., a, f, i.
Sanders Associates, Inc., f, i, l.
Scala Radio Co., a thru d, m, n.
Scientific-Atlanta, Inc., c, f, i, j.
Seeburg Corp., The
Seiscor Mfg. Co., b.
Sequoia Wire & Cable Co.-Div.-Mandrel Industries, Inc., i.
Servo Corp. of America
Singer Mfg. Co., The, Military Products Div., b, e, i.
Skiatron Electronics & Television Corp., i.
Sperry Microwave Electronics Co., Div.-Sperry Rand Corp., f, i, j.
Sperry Piedmont Co. - Div.-Sperry Rand Corp., i, m, n.
Stainless Inc., b, f, i, k, l.
Stavid Engrg., Inc., c, f, i, m, n.
Sterling Precision Corp., Instrument Div., a, f, n.
Strand Engrg. Co., f, i, l.
Swedlow Inc., i.
Systems Inc., a, c, f, i, m, n.
Tamar Electronics, Inc., a, f, h, i, m, n.
Tapco Group, Thompson Ramo Wooldridge Inc., f.
Technical Appliance Corp., b, c, e, f, h, i, m, n.
Telectro Industries Corp., a thru n.
Telerad Mfg. Corp., f, i.
C. W. Torngren Co., Inc., i.
Transco Products, Inc., a, c, e, f, i, m, n.
Tricraft Products Corp., a thru n.
Turbo Machine Co., b, c, e, f, i, l.
U. S. Science Corp., Div.-Topp Industries, Inc.
United States Chemical Milling Corp., i.
Victor R. F. & Microwave Co., f.
Virginia Electronics Co., Inc., h.
Waltham Horological Corp., e.
Walworth Co. Electronics Div., f.
Washington Aluminum Co., Inc., b, h, i.
Waveline, Inc., f.
Webcor, Inc., Government Div., a, c, d, f, i, m, n.
Westbury Electronics Inc., f.
Western Gear Corp., a, b.
Westinghouse Electric Corp., f, i.
Wheeler Laboratories, Inc., f, h, i, m, n.
Wilks Precision Instrument Co., Inc., a, b, e, f, i, l.
Wind Turbine Co., k, m, n.
Z & W Mfg. Corp., l, m.

ANTI-VIBRATION EQUIPMENT

American Aeroparts
American Latex Products Corp.
Anaconda Metal Hose Div., The American Brass Co.
Bushings, Inc.
Cleveland Pneumatic Industries, Inc.
Connecticut Hard Rubber Co., The
Finn Aeronautical Div., T. R. Finn & Co., Inc.
B. F. Goodrich Industrial Products Co.
Gulton Industries, Inc.
Hewitt-Robins, Inc.
***HOUDAILLE INDUSTRIES, INC., BUFFALO HYDRAULICS DIV.**
J. W. Johnson & Co., Inc.
Litton Industries, Inc.
Litton Industries, Maryland Div.
Lord Mfg. Co.
MB Mfg. Co.
***MIRAX CHEMICAL PRODUCTS CORP., METAL CONTAINER DIV.**
Pacific Scientific Co.
Paramount Designs Co.
Parts Engrg. Co., Inc.
Robinson Technical Products, Inc.
Rubbercraft Corp. of California
A. T. Stevens Co.
Taylor Devices, Inc.
Telectro Industries Corp.
Ucinite Co., The, Div.-United-Carr Fastener Corp.
U. S. Industries, Inc.
Washington Technological Associates Inc.

APERTURE TUBE MASKS
See MASKS, APERTURE, TUBE

ARSENIC

Accurate Specialties Co. Inc.
American Optical Co., Instrument Div.
American Smelting & Refining Co.
Belmont Smelting & Refining Works, Inc.
Bram Metallurgical & Chemical Co.
Division Lead Co.
Ohio Semiconductors, Inc.
United Mineral & Chemical Corp.

ASSEMBLERS, FEEDERS

American Machine & Foundry Co., Government Products Group
Bristol Co., The
Electronics Div., Van Norman Industries Inc.
***ETS-HOKIN & GALVAN**
Link-Belt Co.
Monogram Precision Industries
Printronics Corp.
Teiner Engrg. Corp.
Walworth Co. Electronics Div.

ASSEMBLIES, EMBEDDED
See EMBEDDED ASSEMBLIES

ASSEMBLIES, MICROWAVE

Adler Electronics, Inc.
Ainslie Corp.
Aircom Inc.
Aircom Inc. of New Jersey
American Machine & Foundry Co., Government Products Group
Antenna & Radome Research Associates
Applied Radiation Corp.
Atlantic Instrument Corp., Sub.-American Electronics, Inc.
Atlas Precision Products, Co.
Bendix Aviation Corp., York Div.
Bristol Co., The
Budd Stanley Co. Inc.
Bulow Electric Co.
Coaxial Connector Co. Inc.
Consolidated Diesel Electric Corp.
Cooper Development Corp., Sub.-Marquardt Aircraft Co.
Demornay-Bonardi
Douglas Microwave Co., Inc.
Electrical Insulation Co., Inc.
Electro-Mechanical Products Co.
Electronic Communications, Inc.
Eljay Corp.
Emerson Electric Mfg. Co., The, Electronics & Avionics Div.
Empire Products Sales Corp.
***ETS-HOKIN & GALVAN**
FXR, Inc.
Gabriel Co., The, Gabriel Electronics Div.
General Communication Co.
John Gombos Co., Inc.
Gunnar Laboratories
Walter J. Hyatt Co., The
Indusl. Prod.-Danbury Knudsen Div. Amphenol-Borg Electronics Corp.
J-V-M- Microwave Co.
***KEARFOTT CO., INC., MICROWAVE DIV.**
Lemert Engrg. Co., Inc.
Litton Industries, Inc.
W. L. Maxson Corp., The
Mercury Tool & Mfg. Corp.
Meridian Metalcraft, Inc.
Microlab
Microwave Associates, Inc.
Monogram Precision Industries
Motorola Inc., Military Electronics Div.
Mutron Corp.
N. R. K. Mfg. & Engrg. Co.
National Pneumatic Co., Inc., Holtzer-Cabot Divs.
Omega Labs., Inc.
Philco Corp., Government & Industrial Div.
Polarad Electronics Corp.
Radiatronics, Inc.
Ryan Aeronautical Co.
Scientific-Atlanta, Inc.
Sperry Microwave Electronics Co., Div.-Sperry Rand Corp.
Sterling Precision Corp., Instrument Div.
Tapco Group, Thompson Ramo Wooldridge Inc.
Telectro Industries Corp.
Telerad Mfg. Corp.
Transco Products, Inc.
Turbo Machine Co.
Variety Aircraft Corp.
Victor R. F. & Microwave Co.
Waltham Horological Corp.
Waveline, Inc.
Westinghouse Electric Corp.
Wheeler Laboratories, Inc.
Wilks Precision Instrument Co., Inc.

ASSEMBLIES, NOZZLE
See NOZZLE ASSEMBLIES

ASSEMBLIES, PILOT LIGHT
See PILOT LIGHT ASSEMBLIES

ASSEMBLIES, REDUCTION, GEAR
See GEAR ASSEMBLIES REDUCTION

ASSEMBLIES, SLIP RING
See SLIP RING ASSEMBLIES

ASSEMBLIES, TUBULAR FABRICATIONS
See TUBULAR FABRICATIONS & ASSEMBLIES

ASSEMBLIES, TURBINE
See TURBINE ASSEMBLIES

ASSEMBLY EQUIPMENT, AUTOMATIC

American Machine & Foundry Co., Government Products Group
Associated Engineers, Inc.
Atlas Precision Products, Co.
Burklyn Co.
Continental Technical Service, Inc.
Diversey Engrg. Co.
Eisler Engrg. Co., Inc.
Kaiser Aircraft & Electronics, Div.-Kaiser Industries Corp.
Kenhos Corp., Div.
Link-Belt Co.
Philco Corp., Government & Industrial Div.
Pioneer Tool & Engrg. Co.
Printronics Corp.
Robot Industries Inc.
Sheffield Corp., The, Sub.-Bendix Aviation Corp.
United Shoe Machinery Corp., Ordnance Dept.

ASSEMBLY SHIELD, NUCLEAR

ACF Industries Inc.
Alpitec, Inc.
Bar-Ray Products, Inc.
Brooks & Perkins, Inc.
Farrel Birmingham Co. Inc.
General Electric Co., Missile & Space Vehicle Dept.
Hallett Mfg., Co.
Nuclear Products-Erco Div.-ACF Industries, Inc.
R & R Engrg. Co.
Ryan Aeronautical Co.
Zippertubing Co., The

ATTENUATORS
a. Audio
b. Logarithmic
c. Microwave
d. Precision
e. RF & IF

Adler Electronics, Inc., e.
Aero Electronics Corp., e.
Airborne Instruments Lab., Div.-Cutler-Hammer, Inc.
Aircom Inc., c.
Aircom Inc. of New Jersey, c.
Airtron Inc., Div.-Litton Industries, c.
Alford Mfg. Co., c.
American Machine & Foundry Co., Government Products Group, c.
American Machine & Foundry Co., Greenwich, c, e.
Antenna & Radome Research Associates, c, e.
Arenberg Ultrasonic Lab., Inc., b.
Belock Instrument Corp., b.
Blonder-Tongue Labs., Inc., a, e.
Bogart Mfg. Corp., c.
Budd Stanley Co. Inc., c, e.
Centronix Inc., e.
Cinema Engrg., e.
Clippard Instrument Lab., Inc., e.
Coaxial Connector Co. Inc., c, e.
Cooper Development Corp., Sub.-Marquardt Aircraft Co., c.
Daven Co., The, a, d, e.
Demornay-Bonardi, c, d.
Device Development Corp., e.
Diamond Antenna & Microwave Corp., c, e.
Double E Products Co., e.
Douglas Microwave Co., Inc., c, d.
Dymec Inc., c.
Edgerton, Germeshausen & Grier, Inc., c.
Electronic Applications, Inc., e.
Electron-Radar Products, c.
Elsin Electronics Corp., c, d, e
Emerson Electric Mfg. Co., The, Electronics & Avionics Div., c, d, e.
Empire Products Sales Corp., c, d, e.
Entron, Inc., e.
FXR, Inc., c, d, e.
Filmohm Corp., c.
General Communication Co., c, e.
Graflex Inc., e.
Haller, Raymond & Brown Inc. Div., Singer Mfg. Co., b, e.
Hazeltine Electronics Div.-Hazeltine Corp., c, d, e.
Hewlett-Packard Co., c, d, e.
Walter J. Hyatt Co., The, c, e.
ITT Federal Div., International Telephone & Telegraph Corp., a, b, c, e.
ITT Labs., a thru e.
Instruments for Industry, Inc., e.
J-V-M Microwave Co., c, e.
Javex Electronics, e.
E. F. Johnson Co., e.
Julie Research Labs., Inc., d.
Kay Electric Co., a, d, e.
***KEARFOTT CO., INC.**, c.
***KEARFOTT CO., INC., MICROWAVE DIV.**, c, d, e.
Lieco, Inc., c, d.
Lockheed Aircraft Corp., Missiles & Space Div., c.
W. L. Maxson Corp., The, a, c, e.
Mc Millan Industrial Corp., c.
Measurements Div., McGraw Edison Co., e.
Meridian Metalcraft, Inc., c, d.
Microlab, c, e.
Microwave Associates, Inc., c.
Microwave Development Labs., Inc.
Minneapolis-Honeywell Regulator Co., Industrial Product Group, d.
***MIRAX CHEMICAL PRODUCTS CORP., ELECTRO-MECHANICAL PRODUCTS DIV.**, e.
Monogram Precision Industries, a, c, d, e.
Motorola Inc., Military Electronics Div., a, c.
NYT Electronics, Inc., a, e.
Narda Microwave Corp., The, c.
National Pneumatic Co., Inc., Holtzer-Cabot Divs., a, b, d, e.
Omega Labs., Inc., c.
Ortho Filter Corp., a, b, e.
Paramount Designs Co., b, c.
Photo-Crystals, Inc., c.
Polarad Electronics Corp., c.
Portchester Instrument Corp., c.
Precise Development Corp., a, e.
Pyrofilm Resistor Co., Inc., c.
Radar Design Corp., c.

Resdel Engrg. Corp., e.
Rixon Electronics Inc., d, e.
Sage Labs., Inc., c.
Sage-Craft, Inc., e.
Shallcross Mfg. Co., a, d.
Special Instruments Div., British Industries Corp., c.
Specialty Engrg. & Electronics Co., a.
Sperry Microwave Electronics Co., Div.-Sperry Rand Corp., c, d.
Sterling Precision Corp., Instrument Div., c.
Stoddart Aircraft Radio Co., Inc., c, d, e.
Suffolk Products Corp., c, e.
H. W. Sullivan Ltd., b, d, e.
Systems Inc., a thru e.
Topco Group, Thompson Ramo Wooldridge Inc., c.
Telectro Industries Corp., a thru e.
Telerad Mfg. Corp., c.
Telonic Industries, Inc., c, d, e.
Turbo Machine Co., c, e.
University Loudspeakers, Inc., a.
Victor R. F. & Microwave Co., c.
Walworth Co. Electronics Div., e.
Waveline, Inc., c.
Weinschel Engrg., a, c, d, e.
Wilks Precision Instrument Co., Inc., c.
Wright Engrg. Co., c, d, e.
Zenith Optical Laboratory, c, e.

ATTITUDE

Aeronca Mfg. Corp.
American Felt Co.
Cleveland Pneumatic Industries, Inc.
Cooper Development Corp., Sub.-Marquardt Aircraft Co.
Daystrom Pacific Div.-Daystrom, Inc.
Hamilton Standard, Div.-United Aircraft Corp.
***KEARFOTT CO., INC.**
Minneapolis-Honeywell Regulator Co.-Aeronautical Div.
Paramount Designs Co.
***PROPELLEX CHEMICAL DIV., CHROMALLOY CORP.**
Research Controls
Summers Gyroscope Co.
Waldorf Electronics, Div.-F. C. Huyck & Sons

AUDIO CONSOLES
See CONSOLES, AUDIO

AUDIO REMOTE PICKUP
See REMOTE PICKUP, AUDIO

AUTO ALARMS
See ALARMS, AUTO

AUTOMATIC ASSEMBLY EQUIPMENT
See ASSEMBLY EQUIPMENT, AUTOMATIC

AUTOMATIC DEHYDRATORS
See DEHYDRATORS, AUTOMATIC

AUTOMATIC ENGINE CONTROL SYSTEMS
See ENGINE CONTROL SYSTEMS, AUTOMATIC

AUTOMATIC PILOT CONTROL VALVES

Aero Supply Mfg. Inc.
American Measurement & Control, Inc.
***AVCO MFG. CORP., CROSLEY DIV.**
Bendix Aviation Corp., Eclipse-Pioneer Div.
Bendix-Pacific Div., Bendix Aviation Corp.
Cadillac Gage Co.
Clary Dynamics
Cleveland Pneumatic Industries, Inc.
Consolidated Controls Corp.
Consolidated Diesel Electric Corp.
Fisher Governor Co.
Futurecraft Corp.
Hamilton Standard, Div.-United Aircraft Corp.
Hydra-Power Corp.
***HYDRO-AIRE CO., DIV.-CRANE CO.**
Integral Corp.
Javelin Aircraft Co. Inc.
***KEARFOTT CO., INC.**
Kemp Aero Products
Lear, Inc.
Lear, Inc., Grand Rapids Div.
Minneapolis-Honeywell Regulator Co.-Aeronautical Div.
Northrop Corp.
OPW-Jordan
Ozone Metal Products Corp.
Paramount Designs Co.
Pneu-Hydro Valve Corp.
Sargent Engrg. Corp.
Sperry Piedmont Co. - Div.-Sperry Rand Corp.
Summers Gyroscope Co.
Tactair Valve Div.-Aircraft Products Co.
United Aircraft Products, Inc.
Vinson Mfg. Co. Inc.
Waldorf Fluid Systems, Div.-F. C. Huyck & Sons
Westinghouse Electric Corp.
Weston Hydraulics Ltd.-Sub., Borg-Warner Corp.

AUTOMATIC PILOTS
See PILOTS, AUTOMATIC

AUTOMATIC PILOTS, ELECTRONIC

***AIRESEARCH MFG. CO., DIV.-THE GARRETT CORP.**
Atlas Precision Products, Co.
***AVCO MFG. CORP., CROSLEY DIV.**
Bendix Aviation Corp., Eclipse-Pioneer Div.
Cleveland Pneumatic Industries, Inc.
Collins Radio Co.
Daystrom Pacific Div.-Daystrom, Inc.
Diversey Engrg. Co.
Donner Scientific Corp.
Emerson Electric Mfg. Co., The, Electronics & Avionics Div.
Fairchild Astrionics Div., Fairchild Engine & Airplane Corp.
ITT Labs.
Javelin Aircraft Co. Inc.
***KEARFOTT CO., INC.**
Lear, Inc.
Lear, Inc., Grand Rapids Div.
Minneapolis-Honeywell Regulator Co.-Aeronautical Div.
Monogram Precision Industries
Northrop Corp.
Northrop Corp., The, Nortronics Div.
Philco Corp., Government & Industrial Div.
Radiation, Inc.
Ryan Aeronautical Co.
Sanders Associates, Inc.
Servomechanisms, Inc.
Sperry Ferragut Co., Div.-Sperry Rand Corp.
Sperry Piedmont Co.-Div.-Sperry Rand Corp.
Summers Gyroscope Co.
Thiokol Chemical Corp.
Westinghouse Electric Corp.
Whittaker Gyro. Div.-Telecomputing Corp.

AUTOMATIC PILOTS, HYDRAULIC

Aerolab Development Co.
American Rocket Co.
Astronautics Engrg. Co.
Bendix Aviation Corp., Eclipse-Pioneer Div.
Bendix Products Div.,-Missiles, Bendix Aviation Corp.
Bogue Electric Mfg., Co.
Collins Engrg. Corp.
Consolidated Diesel Electric Corp.
Curtiss-Wright Corp., Research Div.
Diversey Engrg. Co.
Dumont Aircraft Fitting Co.
Eastern Industries Inc.
General Electric Co., Apparatus Sales Div.
Gilfillan Bros. Inc.
Green Rectifier Co.
Hydra-Power Corp.
***KEARFOTT CO., INC.**
Land-Air Inc.
Lear, Inc.
Leland Airborne Products, Div.-American Machine & Foundry Co.
Minneapolis-Honeywell Regulator Co.-Aeronautical Div.
Oil-Dyne, Inc.
Pacific Scientific Co.
Pesco Products Div.-Borg-Warner Corp.
Philco Corp., Government & Industrial Div.
Power Supplies Inc.
Ryan Aeronautical Co.
Sargent Engrg. Corp.
Safety Electrical Equipment Corp.
Servomechanisms, Inc.
Sperry Piedmont Co. - Div.-Sperry Rand Corp.
Summers Gyroscope Co.
Turbo Products, Inc.
Washington Technological Associates Inc.
Westinghouse Electric Corp.

AUTOMATIC RESISTANCE COMPARATORS
See COMPARATORS, AUTOMATIC RESISTANCE

AUXILIARY POWER SOURCES

Adel Precision Products of California, Div.-General Metals Corp.
Aeronutronic Systems, Inc., Sub.-Ford Motor Co.
Air Logistics Corp.
***AIRESEARCH MFG. CO. OF ARIZ.**
***AIRESEARCH MFG. CO., DIV.-GARRETT CORP.**
Allied International Co.
Amoco Chemicals Corp.
Associated Engineers, Inc.
Astrodyne, Inc.
Atlantic Research Corp.
***BENDIX AVIATION CORP.-HAMILTON DIV.**
***BENDIX PRODUCTS DIV., BENDIX AVIATION CORP.**
Bendix Utica Div., Bendix Aviation Corp.
Chrysler Corp., Defense Operations Div.
Consolidated Diesel Electric Corp., Western Div.
Cummins Engine Co., Inc.
Curtiss-Wright Corp., Santa Barbara Div.
Curtiss-Wright Corp., Utica Div.
Delco-Remy Div., General Motors Corp.
Diversey Engrg. Co.
Eagle-Picher Co., The
Electro Development Corp.
Electro-Mechanical Products Co.
Emerson Electric Mfg. Co., The, Electronics & Avionics Div.
***ETS-HOKIN & GALVAN**
Georator Corp.
Guided Missile Div.-De Havilland Aircraft of Canada, Ltd.
Gulton Industries, Inc.
Hamilton Standard, Div.-United Aircraft Corp.
Hoover Electric Co.
***HYDRO-AIRE CO., DIV.-CRANE CO.**
International Fermont Machinery Co., Inc.
Jack & Heintz, Inc.
Jeta, Inc.
Kemp Aero Products
Walter Kidde & Co., Inc., Aviation Div.
Leach Corp.
Lear, Inc.
Lear, Inc., Grand Rapids Div.
Leland Airborne Products, Div.-American Machine & Foundry Co.
Marquardt Aircraft Co.
***MC CORMICK SELPH ASSOCIATES**
Minnesota Mining & Mfg. Co.
Heinz Mueller Eng. Co. Inc.
Motoresearch Co.
National Spectrographic Labs., Inc.
D. W. Onan & Sons Inc.
Ordnance Div.-Food Machinery & Chemical Corp.
Patterson, Moos Div. - Universal Winding Co., Inc.
Perkin Engrg. Corp.
Power Designs Inc.
Power Sources, Inc.
Radiation Research Corp.
Reaction Motors Div., Thiokol Chem. Corp.
Reinhold Engrg. & Plastics Co.
Sargent Engrg. Corp.
Solar Aircraft Co.
Special Projects Lab., Food Machinery & Chemical Corp.
Standard Oil Co. of Indiana
Stratos, Div.-Fairchild Engine & Airplane Corp.
Sun Electric Corp., Aeronautical Div.
Talley Corp., The
Topco Group, Thompson Ramo Wooldridge Inc.
Technical Apparatus Builders
Thiokol Chemical Corp., Hunter-Bristol Div.
Turbo Products, Inc.
Varo Mfg. Co., Inc.
Vickers Inc., Div.-Sperry Rand
Watertown Div., The New York Air Brake Co.
Western Design, Div.-U. S. Industries, Inc., Santa Barbara Div.
Western Gear Corp.
Wincharger Corp., Sub.-Zenith Radio Corp.

AXIAL FLOW COMPRESSOR ASSEMBLIES
See COMPRESSOR ASSEMBLIES, AXIAL FLOW

AXIAL FLOW MIDFRAME SECTIONS
See MIDFRAME SECTIONS, AXIAL FLOW

BADGES, RADIATION

Acromark Co., The
Adept Industries Inc.
American Electronics, Inc.
***BAUSCH & LOMB OPTICAL CO.**
Eastman Kodak Co.
Nuclear-Chicago Corp.
St. John X-Ray Lab.
Specialty Engrg. & Electronics Co.

BAFFLES, AIR

Allied Witan Co. Inc.
Anchor Metal Spinning Co., The
Curtiss-Wright Corp.-Wright Aeronautical Div.
Elzee Metal Products Co., Inc.
Ludwig Honold Mfg. Co.
Kentucky Metal Products Co.
***LAVELLE AIRCRAFT CORP.**
Lofstrand Co., The
Mercury Tool & Mfg. Corp.
Monogram Precision Industries
Smith-Morris Corp.
Stanley-Judd Div.-The Stanley Works
Variety Aircraft Corp.

BALANCING EQUIPMENT

American Machine & Foundry Co., Government Products Group
R. B. Annis Co.
Avien, Inc.
Cooper Development Corp., Sub.-Marquardt Aircraft Co.
Dean & Benson Research, Inc.
Decker Corp., The
Dynametrics Corp.
Ensco, Inc.
International Research & Development Corp.
Micro Balancing, Inc.
Pic Design Corp., Sub.-Benrus Watch Co., Inc.
Telectro Industries Corp.
Westinghouse Electric Corp.

BALL JOINTS

Allegany Instrument Co., Inc.
American Aeroparts
Amplex Div.-Chrysler Corp.
Barco Mfg. Co.
Capital City Mfg. Co.
Corbin Products Div.
Crystal-X Corp.
Diversey Engrg. Co.
Dresser Mfg. Div., Dresser Industries, Inc.
Dunbar-Kapple Inc.-Aircraft Components Div.
Flight Refueling, Inc.
Industrial Tectonics, Inc.
Kaydon Engrg. Corp., The
Mercury Air Parts Co., Inc.
Monogram Precision Industries
OPW-Jordan
Radial Bearing Corp.
Rohr Aircraft Corp.

Ryan Aeronautical Co.
Southwest Products Co.
Stainless Steel Products, Inc.
United Mfg. Co., The
Waste King Corp., Technical Products Div.

BALL LATCHES

Burklyn Co.
Capital City Mfg. Co.
Flight Refueling, Inc.
On Mark Couplings, Inc.

BALLISTOCARDIOGRAPHS

Gulton Industries, Inc.
Pace Engrg. Co.

BAROGRAPHS

American Paulin System
Bendix Aviation Corp., Friez Instrument Div.
Instruments Corp., The
Scientific Instrument Co.

BAROMETERS

Airguide Instrument Co.
American Paulin System
Bendix Aviation Corp., Friez Instrument Div.
A. Biederman, Inc.
Bristol Co., The
Daystrom Pacific Div.-Daystrom, Inc.
Dynametrics Corp.
Fisher Scientific Co.
Instruments Corp., The
Precision Thermometer & Instrument Co.
Scientific Instrument Co.
Uehling Instrument Co.
Wallace & Tiernan Inc.
Waltham Engrg. Corp.

BAROMETRIC PRESSURE ALTIMETERS
See ALTIMETERS, BAROMETRIC PRESSURE

BASES
a. Antenna
b. Diode
c. Relay
d. Transistor

Aeronca Mfg. Corp., a.
Ainslie Corp., a.
Allied International Co., a.
Alloys Unlimited Inc., d.
American Car & Foundry, Div.-ACF Industries, Inc., a.
American Machine & Foundry Co., Government Products Group, a.
American Machine & Foundry Co., Greenwich, a.
Anchor Metal Spinning Co., The, a.
Armel Electronics, Inc., c.
Associated Engrg. & Mfg. Corp., d.
Atlas Precision Products, Co., a.
Atmo Seal Co., c.
Automatic Electric Sales Corp., c, d.
Basco Metal Products, Inc., a.
Basic Tool Industries, Inc.
Bendix Aviation Corp., Eclipse-Pioneer Div., a.
E. W. Bliss Co., a.
Bowser Inc., Defense Dept., a.
Brooks & Perkins, Inc., a.
Burndy Corp., Omaton Div., c.
Canoga Div., Underwood Corp., a.
Capital City Mfg. Co., a.
Chemold Co., a.
Columbia Products Co., a.
Frank R. Cook Co.
Diamond Antenna & Microwave Corp., a.
Electrical Insulation Co., Inc., a, d.
Emerson Electric Mfg. Co., The, Electronics & Avionics Div., a.
Farrel Birmingham Co. Inc., a.
Federal Machine Co. Inc., j.
Gabriel Co., The, Gabriel Electronics Div.
Hallicrafters, a.
Hampden Mfg. Co., Inc.
Hi-Lo Manufacturing Corp., a.
Hobson Brothers, Inc., b.
Houston Fearless Corp., a.
Walter J. Hyatt Co., The, a.
I-T-E Circuit Breaker Co., a.
ITT Federal Div., International Telephone & Telegraph Corp., a.
Intercontinental Mfg. Co., Inc., a.
Kelsey-Hayes Co., a.
Keystone Electronics Corp., b.
Kling Metal Spinning & Stamping Co., a.
Lear, Inc., a.
Meridian Metalcraft, Inc., a, d.
Metal Fabricators Corp., a.
***MIRAX CHEMICAL PRODUCTS CORP., ELECTRO-MECHANICAL PRODUCTS DIV., a**
Monogram Precision Industries, a, b, c.
Motorola Inc., Military Electronics Div., a, b, d.
National Pneumatic Co., Inc., Holtzer-Cabot Divs., **a thru d.**
Nordberg Mfg. Co., a.
Permax Products Div., Chisholm-Ryder Co., Inc., a.
Piasecki Aircraft Corp., a.
Pneumafil Corp., a.
Projects Unlimited Inc., a.
Radiatronics, Inc., a.
Raytheon Mfg. Co., Government Equipment Div., a.
Reeves Instrument Corp., a.
Milton Ross Metals Co., The, c.
Royal Industries, Inc., a.
Scientific-Atlanta, Inc., a.
Shaw Metal Products Corp., a.
Sinclair Mfg. Co., b, d.
Smith-Morris Corp.
Specialty Engrg. & Electronics Co., a.
Squiers Gage Co.
Stackpole Carbon Co., a.
Stainless Inc., a.
Stanley-Judd Div.-The Stanley Works, a.
Talley Corp., The, a, b.
Technical Appliance Corp., a.
Teiner Engrg. Corp., a.
Telectro Industries Corp., a.
Transco Products, Inc., a.
Tricraft Products Corp., a.
Warren Components, Div. El-Tronics, Inc., b.
Western Gear Corp., a.

BATTERIES
a. Atomic
b. Dry Cell
c. Lead-Acid
d. Mercury
e. Nickel Alkaline
f. Nickel-Cadmium
g. Nuclear
h. Silver
i. Silver Zinc
j. Transistor

Aerojet-General Corp., i.
Allied International Co., b, e.
Bio-Rad Labs., a.
Bowers Battery & Spark Plug Co., c.
Bright Star Industries, b, j.
Burgess Battery Co., b, d, f, j.
Carbone Corp., The, b.
Communications Research Co., f.
Frank R. Cook Co., h. i.
Cooper Industries, Inc.
Delco-Remy Div., General Motors Corp., c, f, i.
Delta Products Div.-Air Accessories, Inc., j.
De Witt Development Co., c.
Eagle-Picher Co., The, e, f, h, i.
Electric Auto-Lite Co., The, c.
Exide Industrial Div.-The Electric Storage Battery Co., b, c, f, m, i.
General American Transportation Corp., j.
General Electric Co., Apparatus Sales Div., g.
Gill Electric Mfg. Corp., c, e.
Greenbrier Instruments Inc., j.
Gulton Industries, Inc., e, f.
Hamilton Watch Co.-Industrial Div., d, f.
Hoffman Electronics Corp., Semiconductor Div., j.
Ludwig Honold Mfg. Co., j.
International Rectifier Corp., f.
Magnavox Co., The, d.
P. R. Mallory & Co. Inc., b, d, i, j.
Marathon Battery Co., b, j.
Meteor Production Engrg., Inc., c.
Minneapolis-Honeywell Regulator Co., Ordnance Div., b.
National Lead Co.
Nicad Div., Gould-National Batteries, Inc., d, e.
Patterson, Moos Div. - Universal Winding Co., Inc., a, b, g.
Prewitt Aircraft Co., j.
Radiation Research Corp., a, g.
Ray-O-Vac Co., Div.-Electric Storage Battery Co., a, d, i.
Sonotone Corp., f.
Standard Electric Co., Inc., c.
Turbo Machine Co., j.
United States Chemical Milling Corp., j.
Universal Moulded Products Corp., j.
Whittaker Controls, Div.-Telecomputing Corp., f, i.
Willard Storage Battery Div., c, h, i.
Yardney Electric Corp., h, i.

BATTERY BOXES, CRADLES, ETC.

Abalon Precision Mfg. Corp.
Aerolite Electronics Corp.
Anchor Metal Spinning Co., The
Cambridge Thermionic Corp.
Chemold Co.
Frank R. Cook Co.
Cooper Industries, Inc.
Crystal-X Corp.
Dayton Rubber Co., The
Elzee Metal Products Co., Inc.
Farwell Metal Fabricating
General American Transportation Corp.
General Scientific Equipment Co.
C. B. Kaupp & Sons, Inc.
Keystone Electronics Corp.
Kirk & Blum Mfg. Co., The
Lofstrand Co., The
Mercury Tool & Mfg. Corp.
Meteor Production Engrg., Inc.
***MIRAX CHEMICAL PRODUCTS CORP., METAL CONTAINER DIV.**
National Pneumatic Co., Inc., Holtzer-Cabot Divs.
Piasecki Aircraft Corp.
Plastic Age Sales, Inc.
Pneumafil Corp.
Prereg Mfg. Inc.
Russell Reinforced Plastics Corp.
Scientific-Atlanta, Inc.
Seamless Products Co., Inc.
Shaw Metal Products Corp.
Skyline Products, Inc.
Stanley Aviation Corp.
Vitro Labs.
Vichek Tool Co., The
Welded Construction Inc.
Winder Aircraft Corp. of Florida
Young Development Div., Hercules Powder Co.

BATTERY CHARGERS
See CHARGERS, BATTERY

BATTERY CHARGING & SERVICING EQUIPMENT

Acme Electric Corp.
Amelco, Inc.
Automatic Switch Co.
Bogue Electric Mfg., Co.
Carol Electronics Corp.
Christie Electric Corp.
Consolidated Diesel Electric Corp., Western Div.
***ETS-HOKIN & GALVAN**
Exide Industrial Div.-The Electric Storage Battery Co.
General Electric Co., Apparatus Sales Div.
Green Rectifier Co.
Guided Missile Div.-De Havilland Aircraft of Canada, Ltd.
Gulton Industries, Inc.
Hertner Electric Co., The
Homelite, Div.-Textron Inc.
***KEARFOTT CO., INC.**
Leitch-Huard Corp.
Leland Airborne Products, Div.-American Machine & Foundry Co.
P. R. Mallory & Co. Inc.
Meteor Production Engrg., Inc.
Sanford Miller Co.
Model Rectifier Corp.
Motor Appliance Corp.
***MOTOR GENERATOR CORP.**
Motoresearch Co.
D. W. Onan & Sons Inc.
Perkin Engrg. Corp.
Power Supplies Inc.
Precise Development Corp.
Radiaphone Co. Inc.
Republic Aviation Corp.
Safety Electrical Equipment Corp.
Schauer Mfg. Corp.
Sel-Rex Corp.
Sun Electric Corp., Aeronautical Div.
Technical Apparatus Builders
Telectro Industries Corp.
Terado Co.
Westinghouse Electric Corp.
Wincharger Corp., Sub.-Zenith Radio Corp.
Yardney Electric Corp.

BATTERY SERVICING EQUIPMENT

Amelco, Inc.
Bogue Electric Mfg., Co.
Christie Electric Corp.
Frank R. Cook Co.
Electronic Applications, Inc.
***ETS-HOKIN & GALVAN**
General Scientific Equipment Co.
Green Rectifier Co.
***KEARFOTT CO., INC.**
Meteor Production Engrg., Inc.
Orchard Industries, Inc., Actionflex Div.
Snap-On-Tools Corp.
Technical Apparatus Builders
Winder Aircraft Corp. of Florida

BEACONS, CRASH LOCATOR

ACF Industries Inc.
Aerolab Development Co.
American Aeroparts
American Machine & Foundry Co., Government Products Group
American Missile Products Co., Inc.
***AVCO MFG. CORP., CROSLEY DIV.**
Bulow Electric Co.
Cooper Development Corp., Sub.-Marquardt Aircraft Co.
Gilfillan Bros. Inc.
Greer Hydraulics, Inc.
Grimes Mfg. Co.
Hycon Mfg. Co.
ITT Labs.
Lear, Inc.
L E L, Inc.
Litton Industries, Maryland Div.
W. L. Maxson Corp., The
Julian A. Mc Dermott Corp.
Motorola Inc., Military Electronics Div.
***PACKARD-BELL ELECTRONICS CORP.**
Philco Corp., Government Industrial Div.
Radiation, Inc.
Raytheon Mfg. Co., Government Equipment Div.
Simmonds Aerocessories, Inc.
Stavid Engrg., Inc.
Telectro Industries Corp.
Telerad Mfg. Corp.

BEACONS, RADAR
See RADAR BEACONS

BEARINGS
a. Ball
b. Ball Miniature
c. Jewel
d. Needle
e. Oilless
f. Rod End

g. Roller
h. Roller Taper
i. Self Aligning
j. Special Purpose

Acorn Bearing Co., a, g, i.
Advance Carbon & Electric Mfg. Co., e.
Allegany Instrument Co., Inc., j.
Alloys Unlimited Inc., b.
Aluminum Co. of America
American Aeroparts, a thru i.
American Machine & Foundry Co., Greenwich, j.
American Standard Products, Inc., i.
Amplex Div.-Chrysler Corp., e, i, j.
Barden Corp., The, a, b, j.
Bearing Inspection, Inc., a, b, d, f thru j.
Bearium Metals Corp., e.
Beemer Engrg. Co., e.
Bergen Carbide Co., c.
A. Biederman, Inc., a.
Richard H. Bird & Co., Inc., c.
Bonny Mfg. Corp., d, j.
Booker-Cooper, Inc., e, j.
Boston Gear Works, a, e.
Bound Brook Oil-Less Bearing Co., e, i.
Bushings, Inc., e, i, j.
Capital City Mfg. Co., j.
Carbone Corp., The, e, j.
Century Fasteners Corp., a, b, d thru i.
Chain Belt Co., f, g, i, j.
Chemplast, Inc., e.
Chrysler Corp., Defense Operations Div., e, j.
Cleveland Graphite Bronze, Div.-Clevite Corp., f, j.
Collins Engrg. Corp., f.
Corning Glass Works, a.
Crane Packing Co., d.
Curtiss-Wright Corp.-Wright Aeronautical Div., j.
Dixon Corp., e.
Dodge Mfg. Corp., a, g, h, i.
Dresser Mfg. Div., Dresser Industries, Inc., g, j.
Duotone Co., Inc., d.
Fafnir Bearing Co., The, a, b, f, i, j.
Federal Bearings Co. Inc., The, a, b, i, j.
Fluorocarbon Co., The, e.
Fluorulon Labs., Inc., d, i.
Ford Instrument Co., Div.-Sperry Rand Corp., j.
Freeman Co., The., f.
General Electric Co., Apparatus Sales Div., c.
Gits Brothers Mfg. Co., j.
Graphite Metallizing Corp., e, i, j.
Gwilliam Co., The, a, g, j.
Hamilton Watch Co.-Industrial Div., c, e.
Haveg Industries, Inc., j.
Helwig Carbon Products, Inc., e.
Highland Rim Machine Works Inc., j.
Hyatt Bearings Div., General Motors Corp., g, i.
Industrial Tectonics, Inc., a, d, f, g, i, j.
Joclin Mfg. Co., e, j.
Kaydon Engrg. Corp., The, a, d, g thru j.
Hugo P. Keller, Jr., c.
Korda Industries, a, b, j.
Landis & Gyr Inc., a, b, f, j.
Link-Belt Co., a, g, i.
Marlin-Rockwell Corp., a, b, f, g, j.
Marman Div., Aeroquip Corp., j.
Mc Gill Mfg. Co. Inc., Bearing Div., d, g, j.
Microtech Corp., Sub.-Federal-Mogul-Bower Bearings, Inc., b, j.
Miniature Precision Bearings, Inc., b, j.
Monarch Bearing Co. Inc., a thru d, f thru i.
Morganite, Inc., e, j.
Moser Jewel Co., c.
National Beryllia Corp., e, f, g, j.
National Lead Co., i.
New Departure Div., General Motors Corp., a, b, j.
New Hampshire Ball Bearings, Inc., b.
Nice Ball Bearing Co., a, i, j.
Ohio Carbon Co., The, e, j.
Orange Roller Bearing Co., Inc., d, g, j.
Pic Design Corp., Sub.-Benrus Watch Co., Inc., a, b, d.
Polymer Corp., The, e, j.
Radial Bearing Corp., i.
Randall Graphite Bearings, Inc., i, j.
Raway Bearing Co., Inc., a, b, d, f, g, i, j.
Research Development Mfg. Inc., j.
Roller Bearing Co. of America, d, g, j.
SKF Industries, Inc., a, b, g, h, i.
St. Marys Carbon Co., e, i, j.
Sealmaster Bearing Div., Stephens-Adamson Mfg. Co., a, f, i, j.
Shafer Bearings, Chain Belt Co., e, f, i, j.
Southwest Products Co., e, f, i, j.
Sparta Mfg. Co., Div.-U. S. Ceramic Tile Co., i.
Sphinx-American Co., c.
Squiers Gage Co., i, j.
Stackpole Carbon Co., d.
Stein Seal Co., e, j.
Stephens Adamson Mfg. Co., Seal Master Bearing Div., a, f, i, j.
Sterling Precision Corp., Instrument Div., j.
Swiss Jewel Co., b.
Thermal Refractories Corp., d, g.
Thermech Engrg. Corp., j.
Timken Roller Bearing Co., The, g.
Torrington Co., The, d, g thru j.
United States Chemical Milling Corp., j.
United Supply Co., a, e thru h.
Waltham Precision Instrument Co., c.

BELLOW ASSEMBLIES

Accessory Products Co., Div.-Textron Inc.
Aircraft Precision Products, Inc.
Allied Plastics Supply Corp.
Alloy Bellows Inc.
Anaconda Metal Hose Div., The American Brass Co.
Avica Corp.
Badger Mfg. Co.
***BEATON & CORBIN MFG. CO., THE**
Belfab Corp., The
***BENDIX AVIATION CORP.-HAMILTON DIV.**
Breeze Corporations, Inc.
Bridgeport Thermostat Div., Robertshaw-Fulton Controls Co.
Bristol Co., The
California Aircraft Products
Carmac Aviation
Chandler Evans Corp.
Components Corp.
D K Mfg. Co.
Diversey Engrg. Co.
Dresser Mfg. Div., Dresser Industries, Inc.
Dumont Aircraft Fitting Co.
Dunbar-Kapple Inc.-Aircraft Components Div.
Flexible Metal Hose Mfg. Co.
***FLEXONICS CORP., AERONAUTICAL DIV.**
Flight Refueling, Inc.
Gits Brothers Mfg. Co.
B. F. Goodrich Aviation Products
Graflex Inc.
Hallett Mfg., Co.
Holley Carburetor Co.
Hydrodyne Corp., Skinner Seal Div.
International Pump & Machine Works
Joclin Mfg. Co.
Korda Industries
Marman Div., Aeroquip Corp.
Mercury Tool & Mfg. Corp.
Orchard Industries, Inc., Actionflex Div.
Parts Engrg. Co., Inc.
Piasecki Aircraft Corp.
Precision Sheet Metal, Inc.
Raymond Engrg. Lab., Inc.
Reflectone Corp., The
Research Appliance Co.
Resistoflex Corp.
C. F. Roark Welding & Engrg, Co., Inc.
Royal Industries, Inc.
Sealol Corp.
Smith-Morris Corp.
Solar Aircraft Co.
Stainless Steel Products, Inc.
Standard-Thomson Corp., Clifford Mfg. Co. Div.
Sterling Precision Corp., Instrument Div.
Teiner Engrg. Corp.
Tube-Turns Div., Chemetron Corp.
Turbo Products, Inc.
United Electric Controls Co.
U. S. Flexible Metallic Tubing Co.
United States Chemical Milling Corp.
Variety Aircraft Corp.
Waste King Corp., Technical Products Div.
Wilks Precision Instrument Co., Inc.
Zallea Brothers

BELLOWS

Accessory Products Co., Div.-Textron Inc.
Aircraft Precision Products, Inc.
Allied Plastics Supply Corp.
Alloy Bellows Inc.
Anaconda Metal Hose Div., The American Brass Co.
Badger Mfg. Co.
Belfab Corp., The
***BENDIX AVIATION CORP.-HAMILTON DIV.**
Breeze Corporations, Inc.
Bridgeport Thermostat Div., Robertshaw-Fulton Controls Co.
Bristol Co., The
California Aircraft Products
Chicago Gasket Co.
Cleveland Graphite Bronze, Div.-Clevite Corp.
Colonial Rubber Co.
Components Corp.
Continental Rubber Works
Diversey Engrg. Co.
Dunbar-Kapple Inc.-Aircraft Components Div.
Eagle Electric Mfg. Co. Inc.
Emerson Plastics Corp.
Engrg. Developments, Inc.
Flexible Metal Hose Mfg. Co.
***FLEXONICS CORP., AERONAUTICAL DIV.**
Flight Refueling, Inc.
Fluorocarbon Co., The
B. F. Goodrich Aviation Products
Graflex Inc.
Hydrodyne Corp., Skinner Seal Div.
Joclin Mfg. Co.
Orchard Industries, Inc., Actionflex Div.
Pic Design Corp., Sub.-Benrus Watch Co., Inc.
Parts Engrg. Co., Inc.
Precision Sheet Metal, Inc.
Resistoflex Corp.
C. F. Roark Welding & Engrg. Co., Inc.
Fred T. Roberts & Co.
Royal Industries, Inc.
Rubbercraft Corp. of California
Sealol Corp.
Smith-Morris Corp.
Solar Aircraft Co.
Stainless Steel Products, Inc.
Standard-Thomson Corp., Clifford Mfg. Co. Div.
Teiner Engrg. Corp.
Turbo Products, Inc.
United Electric Controls Co.
U. S. Flexible Metallic Tubing Co.
United States Rubber Co.
Waltham Engrg. Corp.
Waste King Corp., Technical Products Div.
Zallea Brothers

BELLS & BUZZERS

Automatic Electric Sales Corp.
Cable Electric Products Inc.
National Pneumatic Co., Inc., Holtzer-Cabot Divs.

BELTS, DIAL DRIVE

General American Transportation Corp.
General Plastics Corp. of New Jersey
Milton Ross Metals Co., The
A. T. Stevens Co.
United States Rubber Co.

BENCHES & STOOLS
See STOOLS & BENCHES

BEZELS

Adept Industries Inc.
Aerolite Electronics Corp.
Allied Plastics Supply Corp.
Capital City Mfg. Co.
Carmody Corp.
Croname Inc.
Diversey Engrg. Co.
Elzee Metal Products Co., Inc.
Etched Products Corp.
Hamilton Watch Co.-Industrial Div.
Jan Hardware Mfg. Co., Inc.
Kling Metal Spinning & Stamping Co.
Kollmorgen Optical Corp.
Maryland Etching Co. Inc.
Sterling Glass Corp.
Wilks Preciston Instrument Co., Inc.

BIMETAL, THERMOSTATIC

American Silver Co.
Bram Metallurgical & Chemical Co.
Bridgeport Brass Co.
Carpenter Steel Co., The
Components Corp.
Engelhard Industries, Inc.
Metals & Controls Corp., General Plate Div.
Scaico Controls, Inc.
United Aircraft Products, Inc.

BINDERS, LIQUID

Grant Chemical Co., Inc.
Monogram Precision Industries
United States Rubber Co.

BINDING POSTS

Accurate Electronics Corp., Dept. D
Aerolite Electronics Corp.
Amatom Electronic Hardware Co. Inc.
Baldwin Mfg. Co. Inc., The
Double E Products Co.
Eastern Specialty Co., The
Elco Corp.
Electro-Tech Equipment Co.
GAR Mfg. Corp.
Graphite Metallizing Corp.
Hewlett-Packard Co.
E. F. Johnson Co.
Litton Industries, U. S. Engrg. Co., Div.
Malco Mfg. Co.
Minnesota Mining & Mfg. Co.
National Pneumatic Co., Inc., Holtzer-Cabot Divs.
National Tel-Tronics Corp.
North Electric Co.
Milton Ross Metals Co., The
Standard Electric Time Co., The
Superior Electric Co., The
Technical Apparatus Builders
Telectro Industries Corp.
Waldom Electronics Inc.

BINS

Anchor Metal Spinning Co., The
Chemold Co.
Elzee Metal Products Co., Inc.
Frick Gallagher Mfg. Co., The
General Box Co.
Hewitt-Robins, Inc.
Kirk & Blum Mfg. Co., The
Mid-West Metal Products, Inc.
R & R Engrg. Co.
Richardson Scale Co.
Stainless Inc.

BLADDERS, FUEL

Allied Plastics Supply Corp.
Aviators Equipment Corp.
Berger Brothers Co., The
Dresser Mfg. Div., Dresser Industries, Inc.
Fluorulon Labs., Inc.
B. F. Goodrich Aviation Products
Goodyear Tire & Rubber Co., The, Aviation Products Div.
Joclin Mfg. Co.

Minnesota Mining & Mfg. Co.
United States Rubber Co.
Walbar Machine Products Inc.

BLADES
a. Compressor
b. Hacksaw
c. Stator
d. Turbine

Allen Tool Corp., a, c.
Allis-Chalmers, a, d.
Aluminum Co. of America, d.
Astronautics Engrg. Co., d.
Austenal Co., Div.-Howe Sound Co., Microcast Products, a, c, d.
Barrett-Christie Co., b.
Capewell Mfg. Co., b.
Christie Machine Works, d.
Curtiss-Wright Corp.-Propeller Div., a, c, d.
Dresser Industries, Inc., a, d.
Eaton Mfg. Co., Aircraft Div., a thru d.
Engelhard Industries Inc., D. E. Makepeace Div., a, c, d.
Ferrotherm Co., The, c.
Fletcher Mfg. Co., Inc., The, a, c, d.
Forsberg Mfg., Co., The, a.
Haynes Stellite Co., Div.-Union Carbide Corp., a, c, d.
Houston Fearless Corp., c, d.
Jarvis Corp., a, c, d.
Kelsey-Hayes Co., a, c, d.
Kolcast Industries-Div. Thompson Ramo Wooldridge Inc., a, c, d.
Ladish Co., a thru d.
Lapointe Machine Tool Co., The, a, c, d.
Marman Div., Aeroquip Corp., d.
Mercury Tool & Mfg. Corp., a, d.
Misco Precision Casting Co., a, c, d.
Heinz Mueller Eng. Co. Inc., c.
National Beryllia Corp., a, d.
Parker-Hartford Corp., The, a, c, d.
Precision Castparts Corp., a, c, d.
Precision Shapes, Inc., a, c, d.
***RHEEM MFG. CO., DEFENSE & TECHNICAL PRODUCTS DIV.**, a, c, d.
Schellens-True Corp., a, c, d.
Simonds Saw & Steel Co., b.
Snap-On-Tools Corp., b.
Solar Aircraft Co., a, c, d.
Stalker Corp., The, a, c, d.
Steel Improvement & Forge, The, a, c, d.
Talley Corp., The, a, c, d.
Tapco Group, Thompson Ramo Wooldridge Inc., a, c, d.
Therm, Inc., a, c, d.
Thermal Refractories Corp., a, d.
Transmares Corp., b.
Turbo Products, Inc., a, c, d.
Universal-Cyclops Steel Corp., a, d.
Veet Industries, a, c, d.
Walbar Machine Products Inc., b, c.
Westinghouse Electric Corp., a, c, d.

BLAST DEFLECTOR, PADS & TUBES

Air Logistics Corp.
American Machine & Foundry Co., Government Products Group
American Machine & Foundry Co., Greenwich
Bil-Jax Inc.
Cleveland Pneumatic Industries, Inc.
Curtiss-Wright Corp.-Utica Div.
Dean Products, Inc.
Diversey Engrg. Co.
Dresser Mfg. Div., Dresser Industries, Inc.
Dynamic Devices, Inc.
Dyna-Therm Chemical Corp.
G. W. Galloway Co.
Haveg Industries, Inc.
Marquardt Aircraft Co.
Mercury Tool & Mfg. Corp.
Minnesota Mining & Mfg. Co.
Monogram Precision Industries
National Beryllia Corp.
Newbrook Machine Corp.
Norton Co., New Products Dept.
Opelika Welding, Machine & Supply Inc.
Ordnance Div.-Food Machinery & Chemical Corp.
Portland Copper & Tank Works Inc.
Raybestos-Manhattan, Inc., Pa.
Edw. Renneburg & Sons Co.
Ryan Aeronautical Co.
Space Corp.
Stainless Inc.
Swedlow Inc.
Thermal Refractories Corp.
Vard Inc.
Washington Technological Associates Inc.
Wayne Pump Co., The, Div.-Symington Wayne Corp.
Zippertubing Co., The

BLIND RIVETS
See RIVETS, BLIND

BLISTERS

Adept Industries Inc.
Blowers Inc.
Homalite Corp., The
Lamtex Industries, Inc.
Mercury Tool & Mfg. Corp.
Minnesota Mining & Mfg. Co.
National Pneumatic Co., Inc., Holtzer-Cabot Divs.
Plastic Age Sales, Inc.
Swedlow Inc.
Tel-Labs, Inc.

BLOCKS, TERMINAL
See TERMINAL BLOCKS

BLOWERS, MOTOR & GENERATOR

***AIRESEARCH MFG. CO., DIV.-THE GARRETT CORP.**
American Aeroparts
American Electronics, Inc.
Bendix-Pacific Div., Bendix Aviation Corp.
Blowers Inc.
Bogue Electric Mfg., Co.
Clarage Fan Co.
Curtiss-Wright Corp., Santa Barbara Div.
Dalmotor Div., Yuba Consolidated Industries, Inc.
Eastern Industries Inc.
Globe Industries, Inc.
Hoover Electric Co.
***HYDRO-AIRE CO., DIV.-CRANE CO.**
ILG Electric Ventilating Co.
Instrument Motors
Joy Mfg. Co.
Leiman Brothers, Inc.
Lundy Mfg. Corp.
McLean Engrg. Laboratories
Monogram Precision Industries
Heinz Mueller Eng. Co. Inc.
National Pneumatic Co., Inc., Holtzer-Cabot Divs.
Redmond Co., Inc.
Ripley Co., Inc.
Roton Mfg. Co.
Small Motors Inc.
Talley Corp., The
Task Corp.
Thompson Engrg. Co., The, Missile Products Div.
Torrington Mfg. Co. Inc., The, Specialty Blower Div.
United Aircraft Products, Inc.
Western Design, Div.-U.S. Industries, Inc.; Santa Barbara Div.
Western Gear Corp.

BLOWERS, SMALL

Air Logistics Corp.
***AIRESEARCH MFG. CO., DIV., THE GARRETT CORP.**
Air-Marine Motors, Inc.
American Aeroparts
American Electronics, Inc.
Ashland Electric Products, Inc.
Barber-Colman Co.
Bendix-Pacific Div., Bendix Aviation Corp.
Blowers Inc.
Chicago Aerial Industries, Inc.
Clarage Fan Co.
Coppus Engrg. Corp.
Curtiss-Wright Corp., Santa Barbara Div.
Dalmotor Div., Yuba Consolidated Industries, Inc.
Dean & Benson Research, Inc.
Eastern Industries Inc.
Eicor Div.-Scranton
El Ray Motor Co., Inc.
Fuller Co.
Garden City Fan Co.
Globe Industries, Inc.
Hoover Electric Co.
ILG Electric Ventilating Co.
Induction Motors Corp.
JEM Electronics Corp.
Joy Mfg. Co.
Lundy Mfg. Corp.
McLean Engrg. Laboratories
Heinz Mueller Eng. Co. Inc.
National Pneumatic Co., Inc., Holtzer-Cabot Divs.
National Spectrographic Labs., Inc.
Peerless Electric Co., The
Redmond Co., Inc.
Ripley Co., Inc.
Rotron Mfg. Co.
Sanders Associates, Inc.
Talley Corp., The
Task Corp.
Technical Apparatus Builders
Teiner Engrg. Corp.
Thompson Engrg. Co., The, Missile Products Div.
Torrington Mfg. Co. Inc., The, Specialty Blower Div.
Turbo Products, Inc.
Universal Dynamics Corp.
Wenzlau Engrg. Co.
Western Design, Div.-U.S. Industries, Inc.; Santa Barbara Div.
Western Gear Corp.

BLOWERS, TRANSMITTER

Air-Marine Motors, Inc.
Bendix-Pacific Div., Bendix Aviation Corp.
Bud Radio Inc.
Dean & Benson Research, Inc.
Hoover Electric Co.
ILG Electric Ventilating Co.
Joy Mfg. Co.
Heinz Mueller Eng. Co. Inc.
Redmond Co., Inc.
Ripley Co., Inc.
Rotron Mfg. Co.
Talley Corp., The
Technical Apparatus Builders
Torrington Mfg. Co. Inc., The, Specialty Blower Div.
Western Gear Corp.

BOARDS, CAPACITOR OR RESISTOR

Accurate Electronics Corp., Dept. D
Adept Industries Inc.
Aerolite Electronics Corp.
Airtronics International Corp.
Carl H. Biggs Co.
Centralab, Div.-Globe-Union
Dalmore Corp.
Detronic Industries
Doty Acoustica Electronic Labs.
Double E Products Co.
Dresser Industries, Inc.
Electrical Insulation Co., Inc.
Electro-Mechanical Products Co.
Gladding, McBean & Co.
Ludwig Honold Mfg. Co.
Julie Research Labs., Inc.
Litton Industries, U.S. Engrg. Co., Div.
Minnesota Mining & Mfg. Co.
National Beryllia Corp.
National Pneumatic Co., Inc., Holtzer-Cabot Divs.
National Tel-Tronics Corp.
Projects Unlimited Inc.
Q-Circuits, Div.-Etching Co. of Calif.
Tri-Dex Co.

BOARDS, PLOTTING

Accurate Electronics Corp., Dept. D
Adept Industries Inc.
Allied Plastics Supply Corp.
Benson-Lehner Corp.
Brooks & Perkins, Inc.
Carmody Corp.
Double E Products Co.
Duralith Corp.
Electro Instruments, Inc.
Electromath Corp.
Eljay Corp.
Emeloid Co., Inc., The
Homalite Corp., The
ITT Labs.
Milgo Electronic Corp.
F. L. Mosley Co.
Motorola Inc., Military Electronics Div.
Nuclear Products-Erco Div.-ACF Industries, Inc.
Seiscor Mfg. Co.
Servo Corp. of America
Skiatron Electronics & Television Corp.
Specialty Engrg. & Electronics Co.
Virginia Plak Co.

BOARDS, PLUG

Accurate Electronics Corp., Dept. D
Aerolite Electronics Corp.
Anton Electronic Labs., Inc.
Automatic Electric Sales Corp.
Donner Scientific Co.
Eastern Specialty Co., The
Electrical Insulation Co., Inc.
Electromath Corp.
***ETS-HOKIN & GALVAN**
Homalite Corp., The
Hydro Molding Co., Inc.
Monogram Precision Industries
National Pneumatic Co., Inc., Holtzer-Cabot Divs.
National Tel-Tronics Corp.
Pilgrim Products Inc.
Projects Unlimited Inc.
Spaulding Fibre Co., Inc.
Virginia Electronics Co., Inc.

BOARDS, TERMINAL
See TERMINAL BOARDS

BOBBINS, COIL WINDING

Advanced Electronics, Inc.
Alden Products Co.
American Molded Products Co.
Automatic Electric Sales Corp.
Bonny Mfg. Corp.
Centralab, Div.-Globe-Union
Chemplast, Inc.
Coil Co. of America
Continental Diamond Fibre Corp.
Electro-Mechanical Products Co.
Emerson Plastics Corp.
Form-It Products, Inc.
Franklin Fibre-Lamitex Corp.
Gerde Mfg. Co.
Gladding, McBean & Co.
Hays Mfg. Co.
Homalite Corp., The
Hydro Molding Co., Inc.
Isolantite Mfg. Corp.
Knopp Inc.
Lamtex Industries, Inc.
Lone Star Plastics Co. Inc.
Maryland Lava Co.
Minneapolis-Honeywell Regulator Co., Boston Div.
Molding Corp. of America
National Coil Co.
National Pneumatic Co., Inc., Holtzer-Cabot Divs.
Peerless Products Industries
Penn Fibre & Specialty Co., Inc.
Perry Plastics, Inc.
Pilgrim Products Inc.
Q. O. S. Corp.
Rollan Electric Co.
Milton Ross Metals Co., The
Sanford Plastics Corp.
Silicone Insulation, Inc.

Slip Ring Co. of America
Stanley-Judd Div.-The Stanley Works
Stevens Products, Inc.
Topper Mfg. Co., Inc.

BOBBINS, TRANSFORMER WINDING

American Molded Products Co.
Bonny Mfg. Corp.
Coil Co. of America
Continental Diamond Fibre Corp.
Emerson Plastics Corp.
Franklin Fibre-Lamitex Corp.
Homalite Corp., The
Hydro Molding Co., Inc.
Knopp Inc.
Lamtex Industries, Inc.
Lone Star Plastics Co. Inc.
Maryland Lava Co.
Molding Corp. of America
National Coil Co.
National Pneumatic Co., Inc., Holtzer-Cabot Divs.
Milton Ross Metals Co., The
Silicone Insulation, Inc.
Slip Ring Co. of America
Stevens Products, Inc.
Topper Mfg. Co., Inc.

BOLT CARTRIDGES, EXPLOSIVE

Aero Bolt & Screw Co., Inc.
American Standard Products, Inc.
Atlantic Research Corp.
Beckman & Whitley, Inc., Missile Products Div.
Components Corp.
Cooper Development Corp., Sub.-Marquardt Aircraft Co.
Horkey-Moore Associates
***MC CORMICK SELPH ASSOCIATES**
Olin Mathieson Chemical Corp., Energy Div.
***PROPELLEX CHEMICAL DIV., CHROMALLOY CORP.**
Thiokol Chemical Corp., Hunter-Bristol Div.

BOLTS, EXPLOSIVE
***MC CORMICK SELPH ASSOCIATES**

BOLTS, LOCK

Abbott Screw & Mfg. Co.
Aero Bolt & Screw Co., Inc.
American Aeroparts
American Standard Products, Inc.
Bland Burner Co., The
Capital City Mfg. Co.
Century Fasteners Corp.
Chandler Products Corp.
Corbin Products Div.
Eaton Mfg. Co., Reliance Div.
Highland Rim Machine Works Inc.
Hi-Shear Rivet Tool Co.
Huck Mfg. Co.
Lamson & Sessions Co., The
Lucas Aircraft Supply Co.
Mercury Air Parts Co., Inc.
Monogram Precision Industries
National Screw & Mfg. Co., The
Republic Steel Corp.
Standard Pressed Steel Co.
Stanley-Judd Div.-The Stanley Works
***TOWNSEND CO., CHERRY RIVET DIV.**
Western Automatic Machine Screw Co., Div.-Standard Screw Co.

BOLTS, SPADE

Abbott Screw & Mfg. Co.
Amatom Electronic Hardware Co. Inc.
American Aeroparts
Atlas Screw & Specialty Co.
Capital City Mfg. Co.
Century Fasteners Corp.
Corbin Products Div.
H. M. Harper Co.
Lucas Aircraft Supply Co.
Monogram Precision Industries
National Screw & Mfg. Co., The
Stanley-Judd Div.-The Stanley Works
Teiner Engrg. Corp.

BOLTS, TOGGLE OR EXPANSION

Abbott Screw & Mfg. Co.
Ackerman Johnson Co.
Allmetal Screw Products Co., Inc.
American Aeroparts
Anchor Metal Spinning Co., The
Arro Expansion Bolt Co.
Atlas Screw & Specialty Co.
Barrett-Christie Co.
Chase Brass & Copper Co., Inc.
Highland Rim Machine Works Inc.
Hi-Shear Rivet Tool Co.
Holub Industries, Inc.
Lucas Aircraft Supply Co.
Monogram Precision Industries
National Screw & Mfg. Co., The
Republic Steel Corp.
Stanley-Judd Div.-The Stanley Works
Star Expansion
United Supply Co.

BONDING JUMPERS
See JUMPERS, BONDING

BONDING MATERIALS

American Felt Co.
Carl H. Biggs Co.
Cordo Chemical Corp.
Corning Glass Works
***DOW CORNING CORP.**
Dresser Mfg. Div., Dresser Industries, Inc.
Dyna-Therm Chemical Corp.
B. F. Goodrich Industrial Products Co.
Goodyear Tire & Rubber Co., The, Aviation Products Div.
Grant Chemical Co., Inc.
Haveg Industries, Inc.
Homalite Corp., The
Kaiser Metal Products, Inc.-Fleetwings Div.
Lamtex Industries, Inc.
Leiman Brothers, Inc.
Lord Mfg. Co.
Minnesota Mining & Mfg. Co.
Monogram Precision Industries
National Beryllia Corp.
Shell Chemical Corp., Industrial Chemicals Div.
Silicones Div.-Union Carbide Corp.

BOOSTERS, GAS PRESSURE

Accessory Controls & Equipment Corp.
Associated Engineers, Inc.
Astrodyne, Inc.
Dynamic Devices, Inc.
Greer Hydraulics, Inc.
Hannifin Co., Div.-Parker-Hannifin Corp.
Haskel Engrg. & Supply Co.
Ingersoll Kalamazoo Div., Borg-Warner Corp.
Intercontinental Mfg. Co., Inc.
Kaiser Metal Products, Inc. - Fleetwings Div.
M. W. Kellogg Co., The
***MC CORMICK SELPH ASSOCIATES**
Newbrook Machine Corp.
Pressed Steel Tank Co.
Reaction Motors Div., Thiokol Chem. Corp.
***RHEEM MFG. CO., DEFENSE & TECHNICAL PRODUCTS DIV.**
Sargent Engrg. Corp.
Universal Moulded Products Corp.
Wayne Pump Co., The, Div.-Symington Wayne Corp.

BOOSTERS, MISSILE, LIQUID FUELED

Aerojet-General Corp.
Alco Products, Inc.
Associated Engineers, Inc.
Chrysler Corp., Defense Operations Div.
Curtiss-Wright Corp.-Wright Aeronautical Div.
Diversey Engrg. Co.
Dresser Mfg. Div., Dresser Industries, Inc.
Dynamic Devices, Inc.
Fulton-Irgon Corp., The
General Electric Co., Apparatus Sales Div.
Hicks Corp., The
Hydrodyne Corp., Skinner Seal Div.
Ingersoll Kalamazoo Div., Borg-Warner Corp.
Kaiser Metal Products, Inc. - Fleetwings Div.
M. W. Kellogg Co., The
Newbrook Machine Corp.
Pressed Steel Tank Co.
Reaction Motors Div., Thiokol Chem. Corp.
***RHEEM MFG. CO., DEFENSE & TECHNICAL PRODUCTS DIV.**
Special Projects Lab., Food Machinery & Chemical Corp.
Stratos, Div.-Fairchild Engine & Airplane Corp.
Thiokol Chemical Corp.
Universal Moulded Products Corp.
Wayne Pump Co., The, Div.-Symington Wayne Corp.

BOOSTERS, MISSILE, SOLID FUELED

Aerojet-General Corp.
Aerolab Development Co.
Alco Products, Inc.
American Rocket Co.
Associated Engineers, Inc.
Astrodyne, Inc.
Atlantic Research Corp.
Bridgeport Brass Co.
Chrysler Corp., Defense Operations Div.
Cooper Development Corp., Sub.-Marquardt Aircraft Co.
Diversey Engrg. Co.
Dresser Mfg. Div., Dresser Industries, Inc.
Dynamic Devices, Inc.
Dyna-Therm Chemical Corp.
Fulton-Irgon Corp., The
General Box Co.
General Electric Co., Apparatus Sales Div.
Goodyear Aircraft Corp.
Hahn & Clay
Hicks Corp., The
Hinde & Dauch Div.-West Virginia Pulp & Paper Co.
Ingersoll Kalamazoo Div., Borg-Warner Corp.
Intercontinental Mfg. Co., Inc.
Kanarr Corp.
M. W. Kellogg Co., The
***MC CORMICK SELPH ASSOCIATES**
Mercury Tool & Mfg. Corp.
Newbrook Machine Corp.
Norris-Thermador Corp.
Oerlikon Tool & Arms Corp. of America
Olin Mathieson Chemical Corp., Energy Div.
Portland Copper & Tank Works Inc.
Pressed Steel Tank Co.
Republic Aviation Corp.
***RHEEM MFG. CO., DEFENSE & TECHNICAL PRODUCTS DIV.**
Roberts Industries Inc.
Rohm & Haas Co., Redstone Arsenal Research Div.
Spaulding Fibre Co., Inc.
Thiokol Chemical Corp.
Wayne Pump Co., The, Div.-Symington Corp.
Winder Aircraft Corp. of Florida

BOOTHS, DECONTAMINATION

***HAWS DRINKING FAUCET CO.**

BOXES

A&P Metal Products Mfg. Corp.
Abalon Precision Mfg. Corp.
Alpitec, Inc.
Aluminum Co. of America
American Aeroparts
American Aluminum Co.
Anchor Metal Spinning Co., The
Brooks & Perkins, Inc.
Bud Radio Inc.
Carmody Corp.
Albert H. Cayne Equipment Corp.
Champion Co., The
Chemold Co.
Chicago Molded Products Corp.
Eckol Packaging Co.
Electro-Mechanical Products Co.
Elzee Metal Products Co., Inc.
***ETS-HOKIN & GALVAN**
Falstrom Co.
Farwell Metal Fabricating
Ferris-Mfg. Co., The
Fletcher Mfg. Co., Inc., The
General American Transportation Corp.
General Box Co.
Greenbrier Instruments Inc.
Hardman Tool & Engrg. Co.
Hinde & Dauch Div.-West Virginia Pulp & Paper Co.
Kirk & Blum Mfg. Co., The
Ludwig Honold Mfg. Co.
Meridian Metalcraft, Inc.
Mid-West Metal Products, Inc.
***MIRAX CHEMICAL PRODUCTS CORP., METAL CONTAINER DIV.**
Monogram Precision Industries
Muckle Mfg. Co.
National Pneumatic Co., Inc., Holtzer-Cabot Divs.
Plastic Age Sales, Inc.
Rimak, Inc.
Seamless Products Co., Inc.
Skydyne, Inc.
Skyline Products, Inc.
Swedlow Inc.
United Supply Co.
Young & Rioux Woodworking Co., Inc.

BOXES, BATTERY, CRADLES, ETC.
See BATTERY BOXES, CRADLES, ETC.

BOXES, JUNCTION

A&P Metal Products Mfg. Corp.
Abalon Precision Mfg. Corp.
Aerolite Electronics Corp.
Anchor Metal Spinning Co., The
Bell & Howell Co.
Brooks & Perkins, Inc.
Bud Radio Inc.
Calfibe Co., Inc.
Chrysler Corp., Defense Operations Div.
Consolidated Productions, Inc.
Crouse-Hinds Co.
Daven Co., The
Dayton Aviation Radio & Equipment Corp.
Electro-Mechanical Products Co.
Elzee Metal Products Co., Inc.
***ETS-HOKIN & GALVAN**
Federal Mfg. & Engrg. Corp.
Ferris-Mfg. Co., The
Firestone Tire & Rubber Co., The, Guided Missile Div.
Fletcher Mfg. Co., Inc., The
General Box Co.
General Electric Co., Apparatus Sales Div.
Hardman Tool & Engrg. Co.
Hoffman Engrg. Corp.
Homalite Corp., The
ITT Federal Div., International Telephone & Telegraph Corp.
Javex Electronics
Kirk & Blum Mfg. Co., The
***LAVELLE AIRCRAFT CORP.**
Litton Industries, Inc.
Ludwig Honold Mfg. Co.
***MIRAX CHEMICAL PRODUCTS CORP., METAL CONTAINER DIV.**
Monogram Precision Industries
Motorola Inc., Military Electronics Div.
Philco Corp., Government & Industrial Div.
Piasecki Aircraft Corp.
Plastic Age Sales, Inc.
Roberts Industries Inc.
Russell Reinforced Plastics Corp.
Ryan Aeronautical Co.
Sequoia Wire & Cable Co., Div.-Mandrel Industries, Inc.
Skyline Products, Inc.
Swedlow Inc.
Teiner Engrg. Corp.

Telectro Industries Corp.
Twin Coach Co., Aircraft-Missiles
United Supply Co.
Universal Moulded Products Corp.
Variety Aircraft Corp.
Waugh Engrg. Co.

BOXES & PANELS, JUNCTION
See JUNCTION BOXES & PANELS

BOXES, STORAGE

A&P Metal Products Mfg. Corp.
Abalon Precision Mfg. Corp.
Aluminum Co. of America
Anchor Metal Spinning Co., The
Brooks & Perkins, Inc.
Carmody Corp.
Albert H. Cayne Equipment Corp.
Champion Co., The
Chemold Co.
Chicago Molded Products Corp.
Continental Diamond Fibre Corp.
Curtiss-Wright Corp., Research Div.
Eckol Packaging Co.
Econoweld Corp.
Elzee Metal Products Co., Inc.
Ferris-Mfg. Co., The
Fletcher Mfg. Co., Inc., The
General American Transportation Corp.
Hinde & Dauch Div.-West Virginia Pulp & Paper Co.
Ludwig Honold Mfg. Co.
Intercontinental Mfg. Co., Inc.
M. W. Kellog Co., The
Kirk & Blum Mfg. Co., The
H. Koch & Sons
Lyon Van & Storage Co., Aircraft Div.
Metal-Glass Products Co.
***MIRAX CHEMICAL PRODUCTS CORP., METAL CONTAINER DIV.**
Monogram Precision Industries
Muckle Mfg. Co.
Piasecki Aircraft Corp.
Plastic Age Sales, Inc.
Precision Sheet Metal, Inc.
Pry Welding & Mfg., Inc.
Russell Reinforced Plastics Corp.
Skyline Products, Inc.
Swedlow Inc.
Teiner Engrg. Corp.
Texas Metal & Mfg. Co., Inc.
Twin Coach Co., Aircraft-Missiles
United Supply Co.
Washington Aluminum Co., Inc.

BRACKETS, HARDWARE

Abalon Precision Mfg. Corp.
Aerolite Electronics Corp.
Aeronca Mfg. Corp.
All Products Co.
Alpitec, Inc.
Amatom Electronic Hardware Co. Inc.
American Aeroparts
Anchor Metal Spinning Co., The
Basic Tool Industries, Inc.
Bud Radio Inc.
Burklyn Co.
Capital City Mfg. Co.
Colonial Aircraft Corp.
Cooper Industries, Inc.
Diversey Engrg. Co.
Double E Products Co.
EMMCO Plastic Fabricators - Div.-E. M. McCarthy Machine Co.
Ferris-Mfg. Co., The
Fletcher Mfg. Co., Inc., The
GAR Mfg. Corp.
Ingersoll Kalamazoo Div., Borg-Warner Corp.
M. W. Kellogg Co., The
Keystone Electronics Corp.
Mercury Tool & Mfg. Corp.
***MIRAX CHEMICAL PRODUCTS CORP., METAL CONTAINER DIV.**
Monogram Precision Industries
Piasecki Aircraft Corp.
Raytheon Mfg. Co.
C. F. Roark Welding & Engrg. Co., Inc.
Stanley-Judd Div.-The Stanley Works
TA Mfg. Corp.
Teiner Engrg. Corp.
Wind Turbine Co.

BRACKETS, MOUNTING

A&P Metal Products Mfg. Corp.
Abalon Precision Mfg. Corp.
Allied Plastics Supply Corp.
Amatom Electronic Hardware Co. Inc.
American Aeroparts
Anchor Metal Spinning Co., The
Automatic Electric Sales Corp.
B. H. Aircraft Co., Inc.
Bruce Engrg. Co.
Bud Radio Inc.
Capital City Mfg. Co.
Colonial Aircraft Corp.
Detronic Industries
Diversey Engrg. Co.
Electro-Mechanical Products Co.
Elzee Metal Products Co., Inc.
Falstrom Co.
Farwell Metal Fabricating
Ferris-Mfg. Co., The
Firestone Tire & Rubber Co., The, Guided Missile Div.
Gar Mfg. Corp.
Highland Rim Machine Works Inc.
Hobson Brothers, Inc.
Ingersoll Kalamazoo Div., Borg-Warner Corp.
M. W. Kellogg Co., The
Keystone Electronics Corp.
Kirk & Blum Mfg. Co., The
Mercury Tool & Mfg. Corp.
Mid-West Metal Products, Inc.
***MIRAX CHEMICAL PRODUCTS CORP., METAL CONTAINER DIV.**
Monogram Precision Industries
Newton Hydraulic Tooling Co.
Piasecki Aircraft Corp.
Pneumafil Corp.
C. F. Roark Welding & Engrg. Co., Inc.
Skinner Precision Products
Smith-Morris Corp.
Stanley-Judd Div.-The Stanley Works
TA Mfg. Corp.
Teiner Engrg. Corp.
Variety Aircraft Corp.
Vector Electronic Co.
Washington Aluminum Co., Inc.
Winder Aircraft Corp. of Florida

BRAKE CONTROL UNITS

B. F. Goodrich Aviation Products
Green Rectifier Co.
Hoover Electric Co.
Hydra-Power Corp.
Sargent Engrg. Corp.
Teiner Engrg. Corp.
Weston Hydraulics Ltd.-Sub., Borg-Warner Corp.

BRAKE DRUM

American Aeroparts
Dresser Mfg. Div., Dresser Industries, Inc.
B. F. Goodrich Aviation Products
Kelsey-Hayes Co.
Mercury Tool & Mfg. Corp.
Rockwell-Standard Corp.

BRAKE LININGS

American Aeroparts
American Brake Shoe Co.
Auto Specialties Mfg. Co., Inc.
***BENDIX PRODUCTS DIV., BENDIX AVIATION CORP.**
Gatke Corp.
B. F. Goodrich Aviation Products
Goodyear Tire & Rubber Co., The, Aviation Products Div.
Johns-Manville
Johns-Manville Sales Corp.
National Beryllia Corp.
Raybestos-Manhattan, Inc.
Raybestos-Manhattan, Inc., Pa.
Thermal Refractories Corp.

BRAKES
a. Electrical
b. Magnetic
c. Mechanical
d. Pneumatic

Airborne Accessories Corp., b, c.
All American Engrg. Co., c.
American Aeroparts, c, d.
American Steel Foundries, Hammond Div., c.
Atlantic Instrument Corp., Sub.-American Electronics, Inc., c, d.
Auto Specialties Mfg. Co., Inc., b, c, d.
Autotronics Inc., b.
Beaver Precision Products Inc., c.
Belock Instrument Corp., b.
***BENDIX PRODUCTS DIV., BENDIX AVIATION CORP., c.**
Bowmar Instrument Corp., c.
Burton-Rodgers, Inc., a, b.
Clark Equipment Co., d.
Cornelius Co., The, Aero Div., d.
Curtiss-Wright Corp., Marquette Div., c.
Cutler-Hammer Inc., a, b.
Dial Products Co., a, b.
Dresser Mfg. Div., Dresser Industries, Inc.
Eaton Mfg. Co.
Electro-Mechanical Products Co., b.
Electro-Tech Equipment Co., b.
FAE Instrument Corp., b.
General Electric Co., Apparatus Sales Div., a, b.
General Electro-Mechanical Corp., a, b.
Globe Industries, Inc., a, b.
B. F. Goodrich Aviation Products, c, d.
Goodyear Tire & Rubber Co., The, Aviation Products Div., a, c, d.
Haddam Mfg. Co., The, b.
Hoover Electric Co., a, b, c.
Integral Corp., c, d.
Jack & Heintz, Inc., a, b, c.
***KEARFOTT CO., INC., a, b.**
Kelsey-Hayes Co., c.
Liggett Supply & Equipment Co., a, c.
Lundy Mfg. Corp., a thru d.
Lyndon Aircraft, Inc., a, b.
Magtrol, Inc., a, b.
Orbit Instrument Corp., b.
Pic Design Corp., Sub.-Benrus Watch Co., Inc., b, c.
Pacific Scientific Co., c.
Reeves Instrument Corp., b.
Robot Industries Inc., a, b.
Rockwell-Standard Corp., c, d.
Sterling Precision Corp., Instrument Div., a, b, c.
Talley Corp., The, a, b, c.
Technical Apparatus Builders, a, b.
Technology Instrument Corp., a, b.
Trombetta Solenoid Corp., b, d.
U. S. Science Corp., Div.-Topp Industries, Inc., b.
Van Zelm Associates, Inc., c.
Warner Electric Brake & Clutch Co., a, b.
Welded Construction Inc., c.
Western Design, Div.-U. S. Industries, Inc.; Santa Barbara Div., a, b.
Western Gear Corp., a, b, c.
Westinghouse Electric Corp., a, b.
Wright Engrg. Co., a, b.

BRAKESHOES

ACF Industries Inc.
American Aeroparts
American Brake Shoe Co.
American Brazing Alloys Co.
American Car & Foundry, Div.-ACF Industries, Inc.
American Steel Foundries, Hammond Div.
***BENDIX PRODUCTS DIV., BENDIX AVIATION CORP.**
B. F. Goodrich Aviation Products
Johns-Manville
Metals & Controls Corp., General Plate Div.
Monogram Precision Industries
Raybestos-Manhattan, Inc.
Rockwell-Standard Corp.
Thermal Refractories Corp.

BRAZING
a. Aluminum Dip
b. Dry Hydrogen

***BENDIX AVIATION CORP., HAMILTON DIV., a, b.**

BRAZING ALLOYS

Accurate Specialties Co. Inc.
Air Reduction Sales Co., Div.-Air Reduction Co., Inc.
Alloys Unlimited Inc.
All-State Welding Alloys Co., Inc.
Aluminum Co. of America
American Brass Co., The
American Silver Co.
Bridgeport Brass Co.
Dalweld Co. Inc.
Engelhard Industries, Inc.
Handy & Harman
Metals & Controls Corp., General Plate Div.
Sargent & Wilbur Heat Treating Corp.
Solar Aircraft Co.
United Wire & Supply Corp.
Vanadium-Alloys Steel Co.
***WALL COLMONOY CORP., STAINLESS PROCESSING DIV.**
Wildberg Bros. Smelting & Refining Co.

BRAZING OR SOLDERING FLUX
See FLUX, BRAZING OR SOLDERING

BREADBOARD KITS, ELECTRONIC

Aerolite Electronics Corp.
Aeronca Mfg. Corp.
Alden Products Co.
Di-An Controls, Inc.
Good Electronic Corp.
Helipot Div.-Beckman Instruments Inc.
Hicks Corp., The
Paul Nurches Co.
Philco Corp., Government & Industrial Div.
Piasecki Aircraft Corp.
Pomona Electronics Co., Inc.
Raymond Engrg. Lab., Inc.
Rimak, Inc.
Ryan Aeronautical Co.
Servo Corp. of America
Stanley Aviation Corp.
Transistor Electronics Corp.
United Aircraft Products, Inc.
Vector Electronic Co.

BREAK-AWAY MECHANISMS

***AC ELECTRONICS DIV., GENERAL MOTORS CORP.**
Aerolab Development Co.
American Machine & Foundry Co., Government Products Group
Beaver Precision Products Inc.
Benbow Mfg. Corp.
Communications Research Co.
Components Corp.
Cooper Development Corp., Sub.-Marquardt Aircraft Co.
Cutler-Hammer Inc.
Hoover Electric Co.
Horkey-Moore Associates
Kaiser Aircraft & Electronics, Div.-Kaiser Industries Corp.
H. Koch & Sons
***MC CORMICK SELPH ASSOCIATES**
Pacific Scientific Co.
Royal Industries, Inc.
Skinner Precision Products
Stanley Aviation Corp.
Thiokol Chemical Corp., Hunter-Bristol Div.
Wilks Precision Instrument Co., Inc.

BREAKERS, CIRCUIT

Cable Electric Products Inc.
Dresser Mfg. Div., Dresser Industries, Inc.
Electric Auto-Lite Co., The
General Electric Co., Apparatus Sales Div.
Heinemann Electric Co.
I-T-E Circuit Breaker Co.
Mechanical Products Inc.
Sangamo Electric Co.
Spencer Div., Metals & Controls Corp.
Westinghouse Electric Corp.

BREATHING EQUIPMENT & OXYGEN APPARATUS
See OXYGEN APPARATUS & BREATHING EQUIPMENT

BREATHERS, ENGINE

Bendix Filter Div., Bendix Aviation Corp.
Curtiss-Wright Corp.-Wright Aeronautical Div.
G. W. Lisk Co. Inc.

BRIDGES

a. Capacitance
b. Cathode Interface Impedance
c. Electrical
d. Impedance
e. Inductance
f. Megohm
g. Resistance
h. RF
i. Self-Balancing
j. Standing Wave
k. Synchro
l. VHF
m. Wheatstone

Acton Labs. Inc., a, d, e.
Aero Electronics Corp., g.
Aeronca Mfg. Corp., a, c, g, h, i, m.
Airborne Instruments Lab., Div.-Cutler-Hammer, Inc., h, i.
Aircom Inc., j.
Aircom Inc. of New Jersey, j.
*AIRESEARCH MFG. CO., DIV.-THE GARRETT CORP., m.
Airflyte Electronics Co., m.
Alford Mfg. Co., j.
Allegany Instrument Co., Inc., g, m.
American Measurement & Control, Inc., c.
*ARNOUX CORP., c, g.
Associated Research, Inc., f, g.
Automation Dynamics Corp., g.
Avien, Inc., a, i.
B & F Instruments, Inc., i.
B & H Instrument Co., Inc., i.
B & K Instruments, Inc., a, e, g.
Bliss Electronic Corp., g.
Boonton Radio Corp., d, g, l.
Bristol Co., The, a, c, d, f thru i, m.
Brunswick Instruments, g.
Cable Electric Products Inc., c.
California Technical Industries, Div.-Textron Inc., j.
Cambridge Instrument Co., Inc., a, d, e, m.
Cardinal Instrumentation Corp., m.
Centralab, Div.-Globe-Union, a.
Centronix Inc.
Clippard Instrument Lab., Inc., a, g.
Control Circuits Inc., c, d, f, g, i, k, l, m.
Cornell-Dubilier Electric Corp., a.
Curtiss-Wright Corp., Electronics Div., g, m.
Datascan Inc., a, b.
Datran Electronics, Div.-Mid-Continent Mfg., Inc., g, i.
Daven Co., The, c thru g, m.
Daystrom Pacific Div.-Daystrom, Inc., i.
Dayton Aviation Radio & Equipment Corp., l.
J. W. Dice Co., g.
Double E Products Co., h.
Dytronics Co., d.
Electro Instruments, Inc., a, f, g, m.
Electro-Measurements Inc., a, d, e, g, k, m.
Electronic Applications, Inc., a, e, f.
Electronic Instrument Co., Inc. (EICO), f.
Electronic Processes Corp. of California, m.
Electro-Tech Equipment Co., f, g, m.
Engrg. Associates, a, c, d, e, g, h, m.
Epic, Inc., a, c thru g, m.
Eppley Laboratory, Inc., The, l.
FXR, Inc., j.
Freed Transformer Co. Inc., a, e.
General Electric Co., Apparatus Sales Div., c, i.
Gilmore Industries, Inc., i.
Globe Industries, Inc., m.
Good Electronic Corp., c, d, i.
Gray Instrument Co., g, k, m.
Gulton Industries, Inc., a.
Hewlett-Packard Co., l.
Industrial Control Co., a.
Industrial Development Labs., Inc., a, g, m.
Industrial Instruments Inc., c, d, f, g, m.
Industrial Test Equipment Co., a, d, e, g, k.
Industrial Transformer Corp., e.
Javelin Aircraft Co. Inc., m.
E. F. Johnson Co., j.
Julie Research Labs., Inc., g, k, m.
Kahn & Co., Inc., g.
*KEARFOTT CO., INC., a, c thru g, i, j, k, m.
Leeds & Northrup Co., a, c thru g, i, m.
Mac Lead & Hanopol, Inc.
Magnetic Controls Co., g.
Marconi Instruments, a, e, g.
Metronix, Inc., Sub.-Assembly Products, Inc., a, e, g.
Minneapolis-Honeywell Regulator Co., Industrial Product Group, a, c thru g, i, m.
Monogram Precision Industries, d, e, g, j, k, l.
Moran Instrument Corp., i.
Narda Microwave Corp., The, c.
New England Scientific Instruments Co., a, c thru g, m.
Paco Electronics Co., Inc., a.
Philco Corp., Government & Industrial Div.
Photobell Co., Inc., a.
Physics Research Laboratories, Inc., g, m.
Precise Development Corp., a, d thru h, m.
Radar Design Corp., h, l.
Radex Corp., d.
Rinco, Inc., a, d thru g, m.
Rixon Electronics Inc., j.
Arthur C. Ruge Associates, Inc., g, m.
Shallcross Mfg. Co., f, g, m.
Southwestern Industrial Electronics Co., a, c thru g, i.
Sperry Microwave Electronics Co., Div.-Sperry Rand Corp., j.
H. W. Sullivan Ltd., a, c, d, e, g, m.
Talley Corp., The, a thru m.
Telectro Industries Corp., a, b, c, f, i, j.
Tel-Labs, Inc., m.
Thiokol Chemical Corp., h.
Waveline, Inc., j.
Weston Instruments, Div.-Daystrom, Inc., i.
Westronics Inc., i.
Wright Engrg. Co., a, b, d thru h.

BRUSHES, MOTOR

ACF Industries Inc.
Advance Carbon & Electric Mfg. Co.
Eagle Electric Mfg. Co. Inc.
Graphite Metallizing Corp.
Helwig Carbon Products, Inc.
Morganite, Inc.
Heinz Mueller Eng. Co. Inc.
National Pneumatic Co., Inc., Holtzer-Cabot Divs.
Ohio Carbon Co., The
Pacific Scientific Co.
St. Marys Carbon Co.
Stackpole Carbon Co.
Superior Carbon Products, Inc.
Westinghouse Electric Corp.

BRUSHES, SOUND REPRODUCTION EQUIPMENT

Helwig Carbon Products, Inc.

BUFFERS, ANTENNA

*HOUDAILLE INDUSTRIES, INC., BUFFALO HYDRAULICS DIV.

BUFFERS & GRINDERS

Barrett-Christie Co.
Black & Decker Mfg. Co., The
Minnesota Mining & Mfg. Co.
Monogram Precision Industries
National Beryllia Corp.
Snap-on-Tools Corp.
Thermal Refractories Corp.
U. S. Electrical Tool Co.
Wyzenbeek & Staff, Inc.

BULBS, RESISTANCE THERMOMETER
See RESISTANCE THERMOMETER BULBS

BULBS, TEMPERATURE RESISTANT

*ARNOUX CORP.
Colonial Rubber Co.
Thomas A. Edison Ind. Instrument Div.-McGraw-Edison Co.
Hallikainen Instruments
Illinois Testing Laboratories, Inc.
*LEWIS ENGRG. CO., THE
Norton Co., New Products Dept.
Arthur C. Ruge Associates, Inc.
Thermo Electric Co., Inc.
Trans-Sonic, Inc.
United Control Corp.

BUSHINGS

Ace Drill Bushing Co. Inc.
Aero Bolt & Screw Co., Inc.
Allied Plastics Supply Corp.
Amatom Electronic Hardware Co. Inc.
American Aeroparts
American Brake Shoe Co.
American Standard Products, Inc.
American Steel Foundries, Hammond Div.
Ampco Metal, Inc.
Arnav Aircraft Associates, Inc.
Baldwin Mfg. Co. Inc., The
Bearium Metals Corp.
Beemer Engrg. Co.
Bound Brook Oil-Less Bearing Co.
Capital City Mfg. Co.
Century Fasteners Corp.
Cleveland Graphite Bronze, Div.-Clevite Corp.
Corning Glass Works
Curtiss-Wright Corp.-Wright Aeronautical Div.
Division Lead Co.
Eagle Electric Mfg. Co. Inc.
Emerson Plastics Corp.
Federal Machine Co. Inc.
Highland Rim Machine Works Inc.
Isolantite Mfg. Corp.
Joclin Mfg. Co.
Johns-Manville
Keystone Electronics Corp.
Landsverk Electrometer Co., The
Mercury Tool & Mfg. Corp.
Monarch Bearing Co. Inc.
National Beryllia Corp.
National Ceramic Co.
Ohio Carbon Co., The
Pic Design Corp., Sub.-Benrus Watch Co., Inc.
Randall Graphite Bearings, Inc.
Research Development Mfg. Inc.
St. Marys Carbon Co.
Ray A. Scharer & Co.
Seamless Products Co., Inc.
Silicone Insulation, Inc.
Sinclair Mfg. Co.
Skinner Precision Products
Southwest Products Co.
A. T. Stevens Co.
True Alloys Inc.
W-S Fittings Works, Forge & Fittings Div., H. K. Porter Co. Inc.
Wilmington Fibre Specialty Co.

BUSHINGS, HERMETICALLY SEALED

B G Corp., The
Ceramaseal, Inc.
Corning Glass Works
Highland Rim Machine Works Inc.
Joclin Mfg. Co.
Landsverk Electrometer Co., The
Lundey Associates Inc.
Telectro Industries Corp.
Torwico Electronics, Inc.

BUSHINGS, METALLIC

Aero Bolt & Screw Co., Inc.
Aircraft Precision Products, Inc.
Airdome Parts Co.
American Aeroparts
American Brake Shoe Co.
American Standard Products, Inc.
American Steel Foundries, Hammond Div.
Ampco Metal, Inc.
Baldwin Mfg. Co. Inc., The
Bearium Metals Corp.
Beemer Engrg. Co.
Birnbach Radio Co., Inc.
Capital City Mfg. Co.
Century Fasteners Corp.
Chase Brass & Copper Co., Inc.
Cleveland Graphite Bronze, Div.-Clevite Corp.
Curtiss-Wright Corp.-Wright Aeronautical Div.
Diversey Engrg. Co.
Division Lead Co.
R. C. Dudek & Co.
Elastic Stop Nut Corp. of America
Federal Machine Co. Inc.
Freeman Co., The
GAR Mfg. Corp.
Graphite Metallizing Corp.
Haynes Stellite Co., Div.-Union Carbide Corp.
Highland Rim Machine Works Inc.
Keystone Electronics Corp.
Landsverk Electrometer Co., The
Litton Industries, U. S. Engrg. Co., Div.
Mercury Tool & Mfg. Corp.
Morganite, Inc.
Pic Design Corp., Sub.-Benrus Watch Co., Inc.
Piasecki Aircraft Corp.
Randall Graphite Bearings, Inc.
Rattan Mfg. Co., The
Research Development Mfg. Inc.
Roller Bearing Co. of America
Ronson Hydraulic Units Corp.
St. Marys Carbon Co.
Ray A. Scharer & Co.
Seamless Products Co., Inc.
Sinclair Mfg. Co.
Skinner Precision Products
Southwest Products Co.
True Alloys Inc.
United Mfg. Co., The
W-S Fittings Works, Forge & Fittings Div., H. K. Porter Co. Inc.
Wilks Precision Instrument Co., Inc.
Wrought Washer Mfg., Co.

BUSHINGS, NON METALLIC

Aero Bolt & Screw Co., Inc.
Allied Plastics Supply Corp.
American Aeroparts
American Standard Products, Inc.
Anti-Corrosive Metal Products Co., Inc.
Auburn Mfg. Co., The
Birnbach Radio Co., Inc.
Capital City Mfg. Co.
Centralab, Div.-Globe-Union
Century Fasteners Corp.
Chemplast, Inc.
Chicago Gasket Co.
Colonial Rubber Co.
Continental Diamond Fibre Corp.
Continental Rubber Works
Corning Glass Works
Curtiss-Wright Corp.-Wright Aeronautical Div.
Dixon Corp.
Duramic Products Inc.
Eagle Electric Mfg. Co. Inc.
Electrical Insulation Co., Inc.
Emerson Plastics Corp.

Engineered Plastics, Inc.
Franklin Fibre-Lamitex Corp.
Frenchtown Porcelain Co.
Freeman Co., The
Furane Plastics, Inc.
Gatke Corp.
General Gasket Inc.
Gladding, McBean & Co.
Graphite Metallizing Corp.
Heyman Mfg. Co.
Highland Rim Machine Works Inc.
Joclin Mfg. Co.
Johns-Manville
Keystone Electronics Corp.
Kip Electronics Corp.
Lamtex Industries, Inc.
Landsverk Electrometer Co., The
Lundey Associates Inc.
Maryland Lava Co.
J. E. Menaugh Co.
Mercury Tool & Mfg. Corp.
Mica Fabricating Co.
Morganite, Inc.
National Beryllia Corp.
Norton Co., New Products Dept.
Ohio Carbon Co., The
Pic Design Corp., Sub.-Benrus Watch Co., Inc.
Perry Plastics, Inc.
Piasecki Aircraft Corp.
Pilgrim Products Inc.
Polymer Corp., The
Rattan Mfg. Co., The
Raybestos-Manhattan, Inc., Pa.
Fred T. Roberts & Co.
Roberts Toledo Rubber Co., The
Rogers Corp.
St. Marys Carbon Co.
Ray A. Scharer & Co.
Silicone Insulation, Inc.
Sinclair Mfg. Co.
Southwest Products Co.
Sparta Mfg. Co., Div.-U. S. Ceramic Tile Co.
Spaulding Fibre Co., Inc.
Stackpole Carbon Co.
Stein Seal Co.
A. T. Stevens Co.
Superior Steatite & Ceramic Corp.
Telectro Industries Corp.
Thermal Refractories Corp.
Thermech Engrg. Corp.
Wilks Precision Instrument Co., Inc.
Wilmington Fibre Specialty Co.

BUZZERS & BELLS
See BELLS & BUZZERS

CABINET CHASSIS
See CHASSIS, CABINET

CABINETS
- **a. Metal**
- **b. Plastic**
- **c. Speaker**
- **d. Temperature Test**
- **e. Wood**

Ace Engrg. & Machine Co., Inc., a
A&P Metal Products Mfg. Corp., a
Abalon Precision Mfg. Corp., a
Adept Industries Inc., b, e
Aerojet-General Corp.
Air Logistics Corp., b
Aircraft Armaments, Inc., a
Alden Products Co., a
Allied Plastics Supply Corp., b
Alpitec, Inc., a
Aluminum Co. of America, a
Amelco, Inc., a
American Agile Corp., b
American Aluminum Co., a
American Electronics, Inc., Taller & Cooper Div., a
American Machine & Foundry Co., Government Products Group, a
American Research Corp., d
Anchor Metal Spinning Co., The, a
Anchor Specialty Mfg. Co. Inc., a, b, d, e
Aristocrat Plastics, Inc., b
***ASSOCIATED TESTING LABS., INC., d**
Astravac Corp., d
Atlas Engrg. Corp., d
B. H. Aircraft Co., Inc., a
Barrett-Christie Co., a
Basco Metal Products, Inc., a
Basic Tool Industries, Inc., a
Benson Mfg. Co., The, a
Bil-Jax Inc., a
Blue M Electric Co., d
Bogue Electric Mfg., Co., a
Brooks & Perkins, Inc., a
Bud Radio Inc., a, c
Carmody Corp., a
Chemold Co., b
C. B. Christiansen Co., a
Chrysler Corp., Defense Operations Div.
Cole Electric Co., a
Colonial Aircraft Corp., a
Conco Engrg. Works, a
Cooper Industries, Inc., a
Cornell Deep Drawing Co., Div.-Lanes Industries Corp., a, b
Craig Systems, Inc., a
Cromer Mfg. & Engrg., Inc., a
Croname Inc., a
Curtiss-Wright Corp., Research Div., b
Cutler Metal Products Co., a
Dahlstrom Metallic Door Co., a
Delta Products Div.-Air Accessories, Inc., b
Deluxe Metal Products Co., a
Detronic Industries, a
Devco Engrg. Inc., a
Dyna-Therm Chemical Corp., d
Eckel Packaging Co., e
Electro-Mechanical Products Co., a
Eljay Corp., a, b
Elzee Metal Products Co., Inc., a
Erie Resistor Corp., b
***ETS-HOKIN & GALVAN, a, i.**
Falstrom Co., a
Farwell Metal Fabricating, a
Ferris-Mfg. Co., The, a
Firestone Tire & Rubber Co., The, Guided Missile Div., a
Fletcher Mfg. Co., Inc., The, a, b
Franklin Fibre-Lamitex Corp., b
Frick Gallagher Mfg. Co., The, a
G. W. Galloway Co., d
General American Transportation Corp., b.
General Testing Labs., Inc., d
Green Rectifier Co., a
Greenbrier Instruments Inc., a
Gremco, Inc., a
Guardite Co., Div. of American Marietta Co., d
Halliburton, Inc., Mfg. Div., a
Paul Hardeman, Inc., a
Hardman Tool & Engrg. Co., a, b
Harris Refrigeration Co., d
Haveg Industries, Inc., b
Hicks Corp., The, d
Hoffman Engrg. Corp., a
Homalite Corp., The, b
Honeycomb Co. of America, Inc., a
Ludwig Honold Mfg. Co., a
Horkey-Moore Associates, a
Hughes Tool Co., Aircraft Div., a
Industrial Engrg. Corp., a
Industrial Tools Mfg. Corp., Sub.-Pendleton Tool Industries, Inc., a
International Radiant Corp., d
Javelin Aircraft Co. Inc., a thru e
Jeta, Inc., a
Kaiser Aircraft & Electronics, Div.-Kaiser Industries Corp., a
Kelsey-Hayes Co., a
Kirk & Blum Mfg. Co., The, a
H. Koch & Sons, b, i.
Lamtex Industries, Inc., b
Leitch-Huard Corp., a
Livingston Electronic Corp., c
Lofstrand Co., The, a
Lone Star Plastics Co. Inc., b
Longren Aircraft Co., Inc., a
R. H. Lynch Mfg. Co., a
Magee-Bralla & Associates, c, d.
Mercury Tool & Mfg. Corp., a
Meridian Metalcraft, Inc., a
Metal Fabricators Corp., a
Metal-Glass Products Co., a
Mid-West Metal Products, Inc., a, c, d.
Miller Dial & Nameplate Co., a
***MIRAX CHEMICAL PRODUCTS CORP., METAL CONTAINER DIV., a**
Molding Corp. of America, b.
Monogram Precision Industries, a, b, d, e.
Monrovia Aviation Corp., a
Morse Instrument Co., The, a
Muckle Mfg. Co., a
Mullenbach Div.-Electric Machinery Mfg. Co., a
National Pneumatic Co., Inc., Holtzer-Cabot Divs., a
National Spectrographic Labs., Inc., a
Nelson Labs., Inc., a
Neumade Products Corp., a
North Electric Co., a
Northeastern Engrg. Inc., a
Nutron Mfg. Co. Inc., a
Oxford Components, Inc., c
***PACKARD-BELL ELECTRONICS CORP., a.**
Piasecki Aircraft Corp., a, b, e
Plastic Age Sales, Inc., b
Pneumafil Corp., a
Portland Copper & Tank Works Inc., a
Precision Sheet Metal, Inc., a
Premier Metal Products Co., a, c
Prereg Mfg. Inc., a
Radiaphone Co. Inc., a
Red Lion Cabinet Co., Redco Tool Div., a, e
Reinhold Engrg. & Plastics Co., b
Republic Steel Corp., a
Rimak, Inc., a, c
Rixon Electronics Inc., a
Roberts Industries Inc., d
Milton Ross Metals Co., The, b
Royal Industries, Inc., a
Russell Reinforced Plastics Corp., b
Santa Anita Engrg. Co., a
Sequoia Wire & Cable Co.-Div.-Mandrel Industries, Inc., a
Shaw Metal Products Corp., a, c
Silicone Insulation, Inc., b
Skydyne, Inc., a, b
Skyline Electric & Mfg. Co., a
Skyline Products, Inc., a
L. B. Smith Aircraft Corp., a
Smith-Morris Corp., a, b
Snap-on-Tools Corp., a
Southwestern Industrial Electronics Co., a
Space Corp., a
Specialty Engrg. & Electronics Co., a, b
Standard Cabinet Co., d
TA Mfg. Corp., a
Teiner Engrg. Corp., a
Telectro Industries Corp., c
Teletronics Lab. Inc., a
Temperature Engrg. Corp., d
Tenney Engrg., Inc., d
Texas Metal & Mfg. Co., Inc., a
Topatron, Inc., a
Twin Coach Co., Aircraft-Missiles, a
United Aircraft Products, Inc., a, d
United States Chemical Milling Corp., a
United States Plywood Corp.
United Supply Co., a, b
Universal Moulded Products Corp., a
Universal Unlimited, Inc., b
University Loudspeakers, Inc., a
Waldom Electronics Inc., b
Washington Aluminum Co., Inc., a
Waterbury Companies, Inc., b
Watson Mfg. Co., Inc., a
Wayne Pump Co., The, Div.-Symington Wayne Corp.
Welded Construction Inc., a
Wenzlau Engrg. Co., a
Westlake Plastics Co., b
Winder Aircraft Corp. of Florida, a
Wyco Metal Products, a
Young & Rioux Woodworking Co., Inc., a

CABLE
- **a. Antenna Transmission**
- **b. Bonding**
- **c. Clamps & Clips**
- **d. Coaxial**
- **e. Coaxial Flexible**
- **f. Coaxial Rigid**
- **g. Control**
- **h. Delay**
- **i. Disconnects**
- **j. Electric**
- **k. Flat Woven**
- **l. Guards**
- **m. Guillotines**
- **n. Hangars**
- **o. Ignition**
- **p. Markers**
- **q. Mechanical**
- **r. Microphone**
- **s. Shielded**
- **t. Solid Dielectric**
- **u. Splicers**
- **v. Tensioners**
- **w. Transmission Lines**
- **x. Wire**

AMP Inc., u
Abalon Precision Mfg. Corp., c
Actuator Products Div., Geartronics Corp., q
Adept Industries Inc., p
Aerojet-General Corp., l.
Aerolite Electronics Corp., c
Airtron Inc., Div.-Litton Industries, o, w.
Alford Mfg. Co., d, f.
Allied Plastics Supply Corp., d, e, p.
Aluminum Co. of America, w, x.
American Aeroports, a thru f, h, i, k, o thru r.
American Brass Co., The, j, x.
American Electric Cable Co., a, c, g, j, k, o, r, s, x.
American Insulated Wire Corp., d thru g, j, o, r, s, x.
American Missile Products Co., Inc., x.
American Super-Temperature Wires, Inc., a, d, e, j, s, t, x.
Amphenol Cable & Wire Div., Amphenol-Borg Electronics Corp., a, d, e, f, r, s, t, w, x.
Amphenol Connector Div., Amphenol-Borg Electronics Corp., c, i.
Anaconda Wire & Cable Co., a, d thru g, j, o, r, s, t, w, x.
Anchor Metal Spinning Co., The, c, l, n, p.
Andrew Corp., a, d, e, f, n, t.
Anton Electronic Labs., Inc., i.
Arens Controls, Inc., g, q
Barker Sales Co., e, d thru g, j, k, s, t, w.
Belden Mfg. Co., a, b, d, e, g, j, k, o, r, s, t, w, x.
Bendix Aviation Corp., Scintilla Div., i, o, s.
Bergen Wire Rope Co., g, q, x.
Birnbach Radio Co., Inc., a thru e, j, o, r, s, w, x.
Whitney Blake Co., j, r, s.
Blonder-Tongue Labs., Inc., c.
Bobrick Mfg. Corp., v.
Boston Insulated Wire & Cable Co., d, e, j, k, o, s, t, x.
William Brand & Co., Inc., a, b, d thru g, j, k, p, r, s, t, w, x.
Breeze Corporations, Inc., c, k, s.
Bridgeport Brass Co., j, x.
Burklyn Co., g.
Cable Electric Products Inc., d, e, j, s, x.
California Spring Co., Inc., x.
Calinoy-Div.-Illinois Tool Works, c.
Carmody Corp., q
Century Fasteners Corp., c.
Chase Brass & Copper Co., Inc., j, w, x.
Chemold Co., b.
Chemplast, Inc., c, t.
Clippard Instrument Lab., Inc., j.
Columbia Technical Corp., h.
Consolidated Wire & Associated Companies, c thru f, i, j, n, q, r, v, w.
Continental Wire Sales Corp., d thru g, o, r, s.
Co-Operative Industries, Inc., e, o, s.

Copperweld Steel Co., Wire & Cable Div., a, d, j, k, s, w, x.
Cornish Wire Co. Inc., r, s, v, w.
Dayton Aircraft Products, Inc., a.
Devcon Corp., b.
Dielectric Materials Co., d thru g, j, k, r, s, t.
W. C. Dillon & Co., Inc., v.
Dockendorff & Co. Inc., v.
Duralith Corp., p.
Dynamic Devices, Inc., m.
Eagle Electric Mfg. Co. Inc., x.
Thomas A. Edison Ind. Instrument Div.-McGraw-Edison Co., a, d, e, j.
Electric Auto-Lite Co., The, j, o, s.
Electric Cords & Supply Corp., e thru j, s, w.
Electronic Applications, Inc., r.
Electronic Parts Mfg. Co., Inc., j.
Emeloid Co., Inc., The, p.
Emerson Radio & Phonograph Corp., s.
Entron, Inc., a, d, e.
Essex Wire Corp., g, j, o, r, s, x.
First Electronics Corp., The, k.
Flexible Metal Hose Mfg. Co., s.
Furane Plastics, Inc., r.
General Cable Corp., a, b, d thru k, o, r, s, t, w, x.
General Cement Mfg. Co., Div.-Textron, Inc., c, r.
General Electric Co., Wire & Cable Dept., g, j, s, t, w, x.
General Insulated Wire Works, d, e, g, j, r, s, x.
General Laboratory Associates, Inc., a.
Gunnar Laboratories, w.
Hallett Mfg., Co., b, c, e, i, j, k, o, p, s, x.
Hallicrafters, a, w.
Heyman Mfg. Co., c, i.
Hitemp Wires Inc., d, e, f, k, s.
Holub Industries, Inc., c.
Holyoke Wire & Cable Corp., a, d, e, g, j, k, r, s, t, w, x.
Hughes Tool Co., Aircraft Div.
Walter J. Hyatt Co., The, a, d.
ITT Labs.
Illumitronic Engrg. Co., c.
International Resistance Co., e, k.
International Wire & Cable Co., a, b, d thru g, j, r, s, t, w, x.
Interstate Electronics Corp.
Javelin Aircraft Co. Inc., x.
Javex Electronics, i, u.
Jefferson Electronic Products Corp., b, e, g, o, s.
Jefferson Wire & Cable Corp., a, d, e, r, s, t, w.
Kickhaefer Mfg. Co., c, n.
Korda Industries, i, j, k.
Lenz Electric Mfg. Co., a, b, d, e, g, k, r, s, t, x.
***LEWIS ENGRG. CO., THE**, d, e, g, j, s, x.
Lieco, Inc., f, h.
Ling Electronics, Inc.
Mac Whyte Wire Rope Co., c, f, q, x.
Magnetic Shield Div. Perfection Mica Co., s.
***MC CORMICK SELPH ASSOCIATES**, m.
J. E. Menaugh Co. o, s.
Meridian Metalcraft, Inc., w.
Microdot Inc., d.
Minneapolis-Honeywell Regulator Co., Ordnance Div., g, j.
Minnesota Mining & Mfg. Co., b, u.
Mohawk Wire & Cable Corp., d, e, g, j, r, s, t.
Monogram Precision Industries, a thru f, k.
National Pneumatic Co., Inc., Holtzer-Cabot Divs., c, g, i, j, o, r.
Nesor Alloy Products Co., s.
Networks Electronic Corp., k.
New England Electrical Works, Inc., b, k, x.
M. M. Newman Corp., l.
Okonite Co., The, Subsidiary of Kennecott Copper Corp., a, d, e, g, o, r, s, t, w.
On Mark Couplings, Inc., i.
Pacific Scientific Co., i, j, m, v, x.
Packard Electric Div.-General Motors Corp., b, j, o, s, x.
Panduit Corp., c, n.
Phalo Plastics Corp., d, e, j, r, s, t, x.
Phelps Dodge Copper Products Corp., a, d thru h, j, o, s, t, w, x.
Plastoid Corp., a, d, e, f, j, o, r, s, t, w.
Precision Tube Co., Inc., a, d, f, s, t, w.
Prodelin Inc., c, d, e, t, w.
***PROPELLEX CHEMICAL DIV., CHROMALLOY CORP.**, m.
Radar Design Corp., f, w.
Revere Corp. of America, d, e, j, s, x.
Rex Corp., The, Sub.-American Enka, d, e, g, j, r, s, t, x.
Roanwell Corp., r.
Fred T. Roberts & Co., c.
Rockbestos Products Corp., d thru g.
Rome Cable Corp., Sub.-Aluminum Co., of America, g, j, s, x.
Roovers-Lotsch Corp., p.
Milton Ross Metals Co., The, c.
Royal Electric Corp., d, e, f, h, j, o, r, s, t, x.
Sequoia Wire & Cable Co.-Div.-Mandrel Industries, Inc., a, d, e, g, i, j, k, o, r, s, t, x.
Servwell Products Co., c, g, q.
Simplex Wire & Cable Co., d, e, g, j, o, r, s, t, w, x.
Southwest Products Co., g.
Southwire Co., w, x.
Specialty Engrg. & Electronics Co.
Spectra-Strip Wire & Cable Corp., b thru g, j, k, p, r, s, x.
Sperry Gyroscope Co., Marine Div., Div.-Sperry Rand Corp., a.
Sperry Piedmont Co.-Div.-Sperry Rand Corp., a.
Stainless Inc., a.
F. W. Stewart Corp., g.
Stic-Klip Mfg., Co., c, n.
Superior Cable Corp., a, b, d, e, g, j, r, s, t, x.
TA Mfg. Corp., c.
Tamer Electronics, Inc., i, w.
Tape Cable Corp., j, s, w, c, g, i, q.
Tensolite Insulated Wire Co., Inc., a, c thru f, j, k, o, q, r, s, x.
Thermal Wire of America, d, e, g, s.
Thermax Wire Corp., d, e, g, j, r, s, t, x.
Times Wire & Cable Co., Inc., a, d, e, g, j, o, r, s, t, w.
Transco Products, Inc., a, d, w.
Turbo Products, Inc., c.
United Supply Co., e, i.
United Wire & Supply Corp., x.
Universal Metal Products Inc., c.
Warren Wire Co., d, e, j, o, s, x.
Washington Aluminum Co., Inc., l.
Western International Co., a, d thru j, o, r, s, w, x.
Westwood Cable Corp., b, d, e, g, j, k, o, r, s, t, x.
Whitaker Cable Corp., j, s, x.
Wilcox-Crittenden Div., North & Judd Mfg. Co., b.
Winder Aircraft Corp. of Florida, a, j.
Wire Co. of America, Inc., a, g, i, s, x.
Wirecraft Products, Inc., d, e, s, x.
Zippertubing Co., The, k, l, p, s.

CABLE ASSEMBLIES, ELECTRICAL

ACF Industries Inc.
Advanced Electronics, Inc.
Aerodex, Inc.
Aerolite Electronics Corp.
Aircraft Tools, Inc.
***AIRESEARCH MFG. CO., DIV.-THE GARRETT CORP.**
Airtronics International Corp.
Alden Products Co.
Alto Scientific Co., Inc.
Amelco, Inc.
American Aeroparts
American Bosch Arma Corp.
American Electric Cable Co.
American Machine & Foundry Co., Government Products Group
Amphenol Connector Div., Amphenol-Borg Electronics Corp.
Anaconda Wire & Cable Co.
Anchor Specialty Mfg. Co. Inc.
Andrew Corp.
Automatic Electric Sales Corp.
Barker & Williamson Inc.
***BEATON & CORBIN MFG. CO., THE**
W. A. Beauchaine & Sons Inc.
Belden Mfg. Co.
Belock Instrument Corp.
Bendix Aviation Corp., Scintilla Div.
Bernco Engrg. Corp.
Birnbach Radio Co., Inc.
Whitney Blake Co.
Bliss Electronic Corp.
Brach Mfg. Corp., Div.-General Bronze
William Brand & Co., Inc.
Breeze Corporations, Inc.
Bristol Co., The
Brown Engrg. Co., Inc.
Bulow Electric Co.
Cable Electric Products Inc.
California Technical Industries, Div.-Textron Inc.
Cameraflex Corp.
***CANNON ELECTRIC CO.**
Carmody Corp.
Centronix Inc.
Chalco Engrg. Corp.
Chrysler Corp., Defense Operations Div.
Coaxial Connector Co. Inc.
Coils-Electronics
Consolidated Productions, Inc.
Continental Technical Service, Inc.
Copper Development Corp., Sub.-Marquardt Aircraft Co.
Co-Operative Industries, Inc.
Cornish Wire Co. Inc.
Dale Products, Inc.
Dalmotor Div., Yuba Consolidated Industries, Inc.
Dayton Aviation Radio & Equipment Corp.
Detronic Industries
Dielectric Materials Co.
Divco-Wayne Electronics, Div.-Divco-Wayne Corp.
Doty Acoustica Electronic Labs.
Double E Products Co.
Dresser Industries, Inc.
Du Kane Corp.
Eastern Specialty Co., The
Electric Auto-Lite Co., The
Electric Cords & Supply Corp.
Electromath Corp.
Electro-Mechanical Products Co.
Electro-Miniatures Corp.
Electronic Assembly Co., Inc.
Electronic Communications, Inc.
Emerson Radio & Phonograph Corp.
Empire Electronics Co., Inc.
Entron, Inc.
Ericson Mfg. Co., The
***ETS-HOKIN & GALVAN**
Fairchild Astrionics Div., Fairchild Engine & Airplane Corp.
Federal Mfg. & Engrg. Corp.
Firestone Tire & Rubber Co., The, Guided Missile Div.
First Electronics Corp., The
Fugle-Miller Labs. Inc.
General Cable Corp.
General Laboratory Associates, Inc.
General Products Corp.
General R-F Fittings, Inc.
Geotronic Labs. Inc.
Gilfillan Bros. Inc.
Good-All Electric Mfg. Co.
Gordon Enterprises
Graflex Inc.
Guardian Electric Mfg. Co.
Gunnar Laboratories
Hallamore Electronics Co.
Hallett Mfg., Co.
Hamilton Standard, Div.-United Aircraft Corp.
Harco Labs., Inc.
Paul Hardeman, Inc.
Hi-Lo Manufacturing Corp.
Hitemp Wires Inc.
Holyoke Wire & Cable Corp.
Walter J. Hyatt Co., The
Indusl. Prod.-Danbury Knudsen Div., Amphenol-Borg Electronics Corp.
Inland Electronics Corp.
Intercontinental Dynamics Corp.
International Wire & Cable Co.
Interstate Electronics Corp.
ITT-Kellogg
Janco Corp.
Jefferson Electronic Products Corp.
Jeta, Inc.
Jettron Products, Inc.
Kahn & Co., Inc.
Kaiser Aircraft & Electronics, Div.-Kaiser Industries Corp.
Kelsey-Hayes Co.
Koiled Kords Inc.
Korda Industries
***LEWIS ENGRG. CO., THE**
Magee-Bralla & Associates
Methode Mfg. Corp.
***MIRAX CHEMICAL PRODUCTS CORP., ELECTRO-MECHANICAL PRODUCTS DIV.**
Modelectric Products Corp.
Motorola Inc., Military Electronics Div.
Mutron Corp.
George L. Nankervis Co.
National Pneumatic Co., Inc., Holtzer-Cabot Divs.
North Electric Co.
Paul Nurches Co.
Pacific Scientific Co.
Packard Electrid Div.-General Motors Corp.
Paraplegics Mfg. Co., Inc.
Piasecki Aircraft Corp.
Pomona Electronics Co., Inc.
Precise Development Corp.
Projects Unlimited Inc.
Pyle-National Co., The
Radiaphone Co. Inc.
Ravenna Metal Products, Div.-Standard Screw Co.
Renwell Corp.
Revere Corp. of America
***RHEEM MFG. CO., DEFENSE & TECHNICAL PRODUCTS DIV.**
Fred T. Roberts & Co.
Milton Ross Metals Co., The
Rowe Industries
Royal Electric Corp.
Royal Industries, Inc.
Ryan Aeronautical Co.
Schaffer Air Industries, Inc.
Sequoia Wire & Cable Co.-Div.-Mandrel Industries, Inc.
Sheltered Workshops
Sittler Corp.
Southwestern Industrial Electronics Co.
Specialty Engrg. & Electronics Co.
Spectra-Strip Wire & Cable Corp.
Suffolk Products Corp.
Switchcraft, Inc.
T-C Div., Dyna-Empire, Inc.
Telectro Industries Corp.
Thomas Electronics, Inc.
Tower Mfg. Corp.
Tricraft Products Corp.
Tri-Dex Co.
Tucson Instrument Corp.
U. S. Relay Co.
United States Chemical Milling Corp.
Victor Adding Machine Co.
Victor R. F. & Microwave Co.
Virginia Electronics Co., Inc.
Waltham Horological Corp.
Webcor, Inc., Government Div.
Western International Co.
Westwood Cable Corp.
Wheeler Electronic Corp., Sub.-Sperry Rand Corp.
Whitaker Cable Corp.
Winder Aircraft Corp. of Florida
Wire Co. of America, Inc.
Wirecraft Products, Inc.
Zippertubing Co., The

CABLE ASSEMBLIES, MECHANICAL

Actuator Products Div., Geartronics Corp.
Aircraft Tools, Inc.
American Aeroparts
Amphenol Cofinector Div., Amphenol-Borg Electronics Corp.
Anchor Specialty Mfg. Co. Inc.
Andrew Corp.
W. A. Beauchaine & Sons Inc.

Bergen Wire Rope Co.
William Brand & Co., Inc.
Burklyn Co.
Carmody Corp.
Century Fasteners Corp.
Coaxial Connector Co. Inc.
Continental Technical Service, Inc.
Dayton Aviation Radio & Equipment Corp.
Divco-Wayne Electronics, Div.-Divco-Wayne Corp.
Electro-Mechanical Products Co.
Electro-Miniatures Corp.
Emerson Radio & Phonograph Corp.
Good-All Electric Mfg. Co.
Hallamore Electronics Co.
Highland Rim Machine Works Inc.
Hi-Lo Manufacturing Corp.
Intercontinental Dynamics Corp.
Jefferson Electronic Products Corp.
Jeta, Inc.
Kennedy Aircraft Supply Co.
Mac Whyte Wire Rope Co.
Magee-Bralla & Associates
Mutron Corp.
Paraplegics Mfg. Co., Inc.
Piasecki Aircraft Corp.
Precision Sheet Metal, Inc.
Projects Unlimited Inc.
Ravenna Metal Products, Div.-Standard Screw Co.
Renwell Corp.
Sequoia Wire & Cable Co., Div.-Mandrel Industries, Inc.
Servwell Products Co.
Southwest Products Co.
Southwestern Industrial Electronics Co.
Specialty Engrg. & Electronics Co.
Spectra-Strip Wire & Cable Corp.
F. W. Stewart Corp.
Teleflex Inc.
Thomas Electronics, Inc.
Tricraft Products Corp.
Virginia Electronics Co., Inc.
Webcor, Inc., Government Div.
Winder Aircraft Corp. of Florida
Zippertubing Co., The

CABLE ASSEMBLIES, THERMO-COUPLES

Advanced Electronics, Inc.
Aero Research Instrument Co. Inc.
Aerolite Electronics Corp.
Aircraft Tools, Inc.
American Electric Cable Co.
Amphenol Connector Div., Amphenol-Borg Electronics Corp.
B G Corp., The
***BEATON & CORBIN MFG. CO., THE**
Bendix Aviation Corp., Scintilla Div.
Bernco Engrg. Corp.
Boston Insulated Wire & Cable Co.
William Brand & Co., Inc.
Bristol Co., The
Dockendorff & Co. Inc.
Electric Cords & Supply Corp.
General Cable Corp.
Claud S. Gordon Co.
Hallett Mfg., Co.
Harco Labs., Inc.
Illinois Testing Laboratories, Inc.
Jefferson Electronic Products Corp.
***LEWIS ENGRG. CO., THE**
Minneapolis-Honeywell Regulator Co., Industrial Product Group
Mutron Corp.
Nesor Alloy Products Co.
Pacific Scientific Co.
Paraplegics Mfg. Co., Inc.
Projects Unlimited Inc.
Renwell Corp.
Revere Corp. of America
Sequoia Wire & Cable Co.-Div.-Mandrel Industries, Inc.
Spectra-Strip Wire & Cable Corp.
T-C Div., Dyna-Empire, Inc.
Thermal Refractories Corp.
Thermo Electric Co., Inc.
Thomas Electronics, Inc.
Westwood Cable Corp.
Winder Aircraft Corp. of Florida
Wire Co. of America, Inc.

CABLE CHECKER
See CHECKER, CABLE

CABLE-ELECTRIC LUGS
See LUGS, CABLE-ELECTRIC

CALIBRATORS

a. Crystal
b. Frequency
c. Radar Devices
d. Radar Range
e. Sweep
f. Voltage
g. UHF
h. VSWR

Aircom Inc., a, h.
Aircraft Armaments, Inc., d.
Airtron Inc., Div.-Litton Industries, h.
American Machine & Foundry Co., Government Products Group, c, d.
American Machine & Foundry Co., Greenwich, c, d.
Arenberg Ultrasonic Lab., Inc., d.
Ballantine Labs., Inc., f.
Barker Sales Co., a.
Rex Bassett, Inc., a.
Beckman Instruments, Inc., Berkeley Div., b.
Beckman-Systems Div., f.
Blonder-Tongue Labs., Inc., g.
Boonton Radio Corp., f.
Bud Radio Inc., a.
California Technical Industries, Div.-Textron Inc., h.
Centronix Inc., b, c.
Collins Radio Co., a, b.
DBM Research Corp., d.
Dayton Aviation Radio & Equipment Corp., a, b.
Divco-Wayne Electronics, Div.-Divco-Wayne Corp., b, c, g.
Donner Scientific Corp., f.
Du Kane Corp., b.
Edgerton, Germeshausen & Grier, Inc., c.
Electro Instruments, Inc., f.
Electronic Applications, Inc., b, g.
Electronic Communications, Inc., c, g.
Electronics of Clearfield, Inc., d, e.
Electronics Div., Van Norman Industries Inc., b.
Engrg. Associates, b, c.
FXR, Inc., h.
Federal Mfg. & Engrg. Corp.
John Fluke Mfg. Co., Inc., f.
General Communication Co., b, c.
Gilfillan Bros. Inc., c, d.
Gulton Industries, Inc., a.
Hallicrafters, b, c.
Walter J. Hyatt Co., The, c, d, e.
ITT Federal Div., International Telephone & Telegraph Corp., a thru h.
International Wire & Cable Co., e, g.
E. F. Johnson Co., a, h.
Kay Electric Co., h.
***KEARFOTT CO., INC., c, d, h.**
Kin Tel Div.-Cohu Electronics, Inc., f.
Lampkin Labs., Inc., M.R. Div., b, g.
Leeds & Northrup Co., f.
Marconi Instruments, b.
Measurements Div., Mc Graw Edison Co., a.
Meridian Metalcraft, Inc., c, h.
Metronix, Inc., Sub.-Assembly Products, Inc., a.
Minneapolis-Honeywell Regulator Co., Industrial Products Group, f.
Miratel, Inc., e, g, h.
Missouri Research Labs., Inc., d.
Monogram Precision Industries, b, d, f, g, h.
Moran Instrument Corp., f.
Motorola Inc., Military Electronics Div., a.
Ernest Norman Laboratories, a.
North Hills Electric Co., Inc., f.
Optimized Devices, Inc., f.
Orbitron Co., Inc., d.
Osborne Electronic Sales Corp., f.
Philco Corp., Government & Industrial Div.
Piasecki Aircraft Corp., b.
Polarad Electronics Corp., h.
Precise Development Corp., e, f.
Probescope Co. Inc., a, b.
Radar Design Corp., b, d.
Radiation, Inc.
Reeves-Hoffman Div., a, b.
Rese Engrg., Inc., f.
Rixon Electronics Inc., h.
Simpson Electric Co., f.
Specialty Engrg. & Electronics Co., f.
Sperry Microwave Electronics Co., Div.-Sperry Rand Corp., d.
Systron Corp., b.
Telerad Mfg. Corp., b, c, d.
Tel-Instrument Electronics Corp., d.
Turbo Machine Co., c, d, h.
Universal Unlimited, Inc., c, d, f.
Waveline, Inc., h.
Weinschel Engrg., h.
Weston Instruments, Div.-Daystrom, Inc., f.
Wilks Precision Instrument Co., Inc., h.
Winder Aircraft Corp. of Florida, e.
Wright Engrg. Co., b.

CALLING APPARATUS, SELECTIVE
See SELECTIVE CALLING APPARATUS

CALLING SYSTEMS, SELECTIVE, NAVIGATION

Atlas Precision Products, Co.
Bell & Gossett Co.
Bendix Radio Div., Bendix Aviation Corp.
Collins Radio Co.
***ETS-HOKIN & GALVAN**
ITT Labs.
Jansky & Bailey, Inc.
Motorola Inc., Military Electronics Div.
Philco Corp., Government & Industrial Div.
Sperry Gyroscope Co., Marine Div., Div.-Sperry Rand Corp.
Telechrome Mfg. Corp.
Telectro Industries Corp.
Winder Aircraft Corp. of Florida

CAMERA AUXILIARY EQUIPMENT

Abrams Instrument Corp.
Atlas Precision Products, Co.
Beckman & Whitley, Inc., Missile Products Div.
Bell & Howell Co.
Belock Instrument Corp.
Benson-Lehner Corp.
Bulow Electric Co.
Chemold Co.
Chicago Aerial Industries, Inc.
Christie Machine Works
Eastman Kodak Co.
Flight Research, Inc.
General Electric Co., X-Ray Dept.
Gordon Enterprises
Graflex Inc.
Houston Fearless Corp.
Hycon Mfg. Co.
Instrument Corp. of Fla.
ITT-Kellogg
Mast Development Co., Inc.
Mitchell Camera Corp.
Monogram Precision Industries
Optomechanisms Inc.
Philco Corp., Government & Industrial Div.
Specialties, Inc.
Sterling-Howard Corp.
Television Utilities Corp.
Traid Corp.
Transmares Corp.

CAMERA MOUNTS

Aeroflex Corp., The, Aeroflex Labs. Div.
American Machine & Foundry Co., Government Products Group
American Machine & Foundry Co., Greenwich
Anchor Metal Spinning Co., The
Atlas Precision Products, Co.
Bell & Howell Co.
Benson-Lehner Corp.
Burke & James Inc.
Cameraflex Corp.
Capital City Mfg. Co.
Chicago Aerial Industries, Inc.
Christie Machine Works
Flight Research, Inc.
Gordon Enterprises
Graflex Inc.
Ludwig Honold Mfg. Co.
Houston Fearless Corp.
Hycon Mfg. Co.
Instrument Corp. of Fla.
Javelin Aircraft Co. Inc.
Kelsey-Hays Co.
Mast Development Co., Inc.
Mercury Tool & Mfg. Corp.
Monogram Precision Industries
Optomechanisms Inc.
Philco Corp., Government & Industrial Div.
Piasecki Aircraft Corp.
Sterling-Howard Corp.
Traid Corp.
Transmares Corp.

CAMERA SWITCHING EQUIPMENT
See SWITCHING EQUIPMENT, CAMERA

CAMERA TURRETS
See TURRETS, CAMERA

CAMERAS

a. Data Recording
b. High Speed
c. Motion Picture
d. Oscilloscope
e. Recording, Radar & Oscilloscope
f. Sequence, Pluse
g. Television
h. X-Ray

Abrams Instrument Corp., a, e.
Allegany Instrument Co., Inc., a, b.
American Electronics, Inc., Taller & Cooper Div., a.
American Felt Co., d.
***AVCO MFG. CORP., CROSLEY DIV., g.**
Beattie-Coleman, Inc., a, d, e, f, h.
Beckman & Whitley, Inc., Missile Products Div., b, d.
Bell & Howell Co.
Bendix Aviation Corp., Friez Instrument Div., g.
Benson-Lehner Corp., a, b.
Ernest E. Blanche & Associates, Inc., a.
Blonder-Tongue Labs., Inc., g.
Bulow Electric Co., f.
Burke & James Inc., a, e, f, h.
Camera Mart Inc., The, a, b, c.
Cameraflex Corp., a, c thru f.
Chadwick-Helmuth Co., b, c.
Chicago Aerial Industries, Inc., a thru f.
Christie Machine Works, b.
Coleman Engrg. Co., Inc., d.
DBM Research Corp., a, c, f.
Dage Television Div., Thompson Ramo Wooldridge, Inc., g.
Eastman Kodak Co., c.
Edgerton, Germeshausen & Grier, Inc., a thru e.
Electro-Medical Lab., Inc., d.
Electronic Tube Corp., d, e.
J. W. Fecker, Inc., a thru f.
Flight Research, Inc., a thru f, h.
Foto-Video Labs., Inc., g.
General Electric Co., Apparatus Sales Div., g, h.
General Electric Co., Technical Products Dept., g.
General Electric Co., X-Ray Dept., a, d, e, f, h.
General Precision Lab. Inc., g.
Giannini Plasmadyne Corp., b.
Gordon Enterprises, a thru g.
Graflex Inc., a, d, e, f.
Hallamore Electronics Co., g.
Hycon Mfg. Co., b, f.
ITT Labs.-Ft. Wayne, b, e, g.
Instrument Corp. of Fla.
Instruments Div.-Philips Electronics, Inc., h.
Jarrell-Ash Co., h.

Kin Tel Div.-Cohu Electronics, Inc., g.
Land-Air Inc., a, b.
Librascope Inc., b.
Lockheed Aircraft Corp., Missiles & Space Div., a, b, g.
Mast Development Co., Inc., a, b.
Micrometrical Mfg. Co., d.
Midwestern Instruments, Inc., a.
Miratel, Inc., d, g.
Mitchell Camera Corp., a, b, c.
Monogram Precision Industries, e, f.
Morse Instrument Co., The, a, c.
Optomechanisms Inc., a, c thru f.
Otis Elevator Co., Electronic Div., a.
Perkin-Elmer Corp., a, g.
Philco Corp., Government & Industrial Div., g.
Picker X-Ray Corp., h.
Rolle Mfg., Co., a thru h.
Royal Industries, Inc., a, b.
St. John X-Ray Lab., h.
Seiscor Mfg. Co., a.
Skiatron Electronics & Television Corp., g.
Southwestern Industrial Electronics Co., a, b, d, e.
Specialties, Inc., e.
Specialty Engrg. & Electronics Co., d.
Sterling Precision Corp., Instrument Div., b.
Sterling-Howard Corp., a, c.
Telechrome Mfg. Corp., d, g.
Traid Corp., a thru f.
Transmares Corp.
Victor Adding Machine Co., a.
Vought Co., a thru f.
Wollensak Optical Co., a thru f.

CANS, HERMETICALLY SEALED

Abalon Precision Mfg. Corp.
American Aluminum Co.
Balco Research Labs., Inc., Capacitor Div.
A. Biederman, Inc.
Brooks & Perkins, Inc.
Champion Co., The
Conco Engrg. Works
Continental Can Co., Inc.
Cornell Deep Drawing Co., Div.-Lanes Industries Corp.
Double E Products Co.
Dresser Mfg. Div., Dresser Industries, Inc.
Electro-Seal Corp.
Graflex Inc.
Ludwig Honold Mfg. Co.
Intercontinental Mfg. Co., Inc.
***MIRAX CHEMICAL PRODUCTS CORP., METAL CONTAINER DIV.**
Monogram Precision Industries
Motorola Inc., Military Electronics Div.
National Pneumatic Co., Inc., Holtzer-Cabot Divs.
Milton Ross Metals Co., The
Seamless Products Co., Inc.
Silicone Seals, Inc.
Smith-Morris Corp.
Southwestern Industrial Electronics Co.
Telectro Industries Corp.
Triad Transformer Corp.
United Aircraft Products, Inc.
Wesrep Corp.
Winzen Research Inc.

CAPACITOR FILMS
See FILMS, CAPACITOR

CAPACITOR OR RESISTOR BOARDS
See BOARDS, CAPACITOR OR RESISTOR

CAPACITOR SPECIALTIES MEASUREMENT

Basco Metal Products, Inc.
Bliss Electronic Corp.
Double E Products Co.
Electronic Applications, Inc.
New England Scientific Instruments Co.
Photobell Co., Inc.
Pyramid Electric Co.
Telectro Industries Corp.

CAPACITORS

a. Ceramic
b. Ceramic Trimmer
c. Composition
d. Decade
e. Electrolytic
f. Feed-Through
g. Fixed
h. Gas-Filled
i. Glass
j. Glass Trimmer
k. Hermetically Sealed
l. High Temperature
m. High Voltage
n. Industrial
o. Metallized Paper
p. Mica
q. Mica Trimmer
r. Miniature
s. Mylar Dielectric
t. Neutralizing
u. Oil
v. Oil Filled
w. Piston
x. Plastic
y. Plastic Dielectric
z. Plug-In
a1. Polystyrene Insulated
b1. Porcelain
c1. Precision
d1. Pressure Types
e1. Printed Circuit
f1. Receiver Tuning
g1. Silicone-Filled
h1. Silvered Mica
i1. Standard
j1. Tantalum
k1. Teflon
l1. Teflon, Dielectric
m1. Temperature Compensated
n1. Transmitter Tuning
o1. Transmitting
p1. Vacuum Types
q1. Variable

ACF Industries Inc., a, s, e-1.
AMP Inc., g, k, l, r, n-1, o-1.
Adept Industries Inc., e-1, k-1, l-1.
Advance Carbon & Electric Mfg. Co., e, k, n, u, v, x.
Aerovox Corp., a, b, d thru g, k thru p, r, s, u, v, x, y, z, a-1, b-1, c-1, e-1 thru n-1.
Airborne Accessories Corp., f, g, l, o, r.
American Aerophysics Corp., w, x.
American Agile Corp., x, y, k-1, l-1.
American Bosch Arma Corp., f.
American Lava Corp., a, b, f, r, e-1.
Astravac Corp., m.
Astron Corp., a, e, f, g, k thru o, r, s, u thru z, e-1, g-1, j-1 thru m-1, o-1.
Atlas E-E Corp., j.
Avnet Corp.
Axel Electronics, f, g, k thru n, s, u, v, x, y, g-1, k-1, l-1.
Balco Research Labs., Inc., Capacitor Div., f, g, k thru n, r, s, x, y, z, a-1, c-1, e-1, g-1, k-1, l-1, p-1, q-1.
Barker & Williamson Inc., n-1, o-1, q-1.
Bendix Aviation Corp., Scintilla Div., l.
Bradford Components, Inc., a.
Bud Radio Inc., t, a-1, q-1.
Cambridge Thermionic Corp., a, b, f, i, q-1.
Carborundum Co., Refractories Div., a, k.
Centralab, Div.-Globe-Union, a, b, f, g, l, m, n, r, w, z, e-1, m-1, o-1.
Chemplast, Inc., l-1.
Chicago Gasket Co., k-1, l-1.
Cornell-Dubilier Electric Corp., a, c thru g, k thru p, r, s, v, x, y, z, a-1, b-1, c-1, e-1, h-1, j-1 thru m-1, o-1.
Corning Glass Works, g, i thru l, n, r, w, c-1, e-1.
Corson Electric Mfg. Corp., k, l, m, s, u, x, a-1, f-1, j-1, k-1.
Dearborn Electronic Labs., g, k thru n, r, s, u, v, x, y, a-1, g-1, k-1, l-1.
Devcon Corp., x.
Dolinko & Wilkens, Inc., p-1.
Donner Scientific Co., z.
Double E Products Co., e, f, g, k, l, m, o, p, r, s, y, k-1, l-1.
EFCON (Electronic Fabricators, Inc.), g, i, k, l, m, r, s, x, y, z, a-1, c-1, g-1, i-1 thru l-1.
Eastern Jewel Corp., e, e-1.
Electra Mfg. Co., a, f, g, m, q, r, e-1, m-1.
Electro-Capacitors Co., e, n.
Electro-Measurements Inc., d, a-1.
Electron Products Co., d, f, g, k thru o, r thru u, x, y, z, a-1, c-1, e-1, g-1, k-1, l-1.
Electronic Applications, Inc., b, q, r, s, w, x, a-1.
El Ray Motor Co., Inc., a, q.
Erie Resistor Corp., a, b, e, f, g, j thru m, o thru r, x, y, b-1, d-1, e-1, g-1, h-1, j-1, l-1, m-1, q-1.
Filmohm Corp., h-1.
Filtron Co., Inc., e, f, k thru o, r, s, u, v, x, y, a-1, e-1, g-1, k-1, l-1.
Fluorocarbon Co., The, k-1, l-1.
Franklin Fibre-Lamitex Corp., x, y, a-1, k-1, l-1.
Freed Transformer Co. Inc., d.
Furance Plastics, Inc., y.
Gas Appliance Stores, Inc., y.
General Electric Co., Apparatus Sales Div., c, e, f, f, k, m, n, r, s, v, y, i-1, j-1, a-1.
General Products Corp., o, s, y, a-1.
Geotronic Labs. Inc., a, r, s, g-1, l-1.
Giannini Plasmadyne Corp.
John Gombos Co., Inc., q-1.
Good-All Electric Mfg. Co., a, c, e, g, k thru o, r, s, u, v, x, y, z, a-1, c-1, e-1, i-1, g-1, k-1, l-1.
Gulton Industries, Inc., a, i, l, m-1.
Hallett Mfg., Co., f.
Halogen Insulator & Seal Corp., k-1, l-1.
Hammarlund Mfg. Co., Inc., b, l, m, n, e-1, n-1, o-1, q-1.
Haveg Industries, Inc., g-1, k-1, l-1.
ITT-Kellogg, g.
Illinois Condenser Co., d, e, m, n, r, z, e-1, j-1.
Industrial Instruments Inc., d.
International Electronic Industries, Inc., e, r, e-1, j-1.
JFD Electronics Corp., b, i thru l, r, t, c-1, f-1, n-1, o-1, q-1.
Jennings Radio Mfg. Corp., m, p-1, q-1.
E. F. Johnson Co., a, m, n, r, t, e-1, n-1, o-1, q-1.
Kling Metal Spinning & Stamping Co., q-1.
Leeds & Northrup Co., d, p, c-1, h-1.
Ling Electronics, Inc., a, b, g, k, l, n, o-1, p-1, q-1.
Mac Leod & Hanopol, Inc., i-1.
Magnavox Co., The, d, i-1, j-1.
Maida Development Co., a, b, f, g, l, m, r, s, e-1, m-1.
P. R. Mallory & Co. Inc., a, e, f, g, k, l, r, v, e-1, j-1.
Maryland Lava Co., a, x, y, k-1, l-1.
Mc Coy Electronics Co., q-1.
Mica Fabricating Co., p, q, q-1.
Milam Electric Mfg. Co., r, x.
Minneapolis-Honeywell Regulator Co., Industrial Products Group, e-1.
Minnesota Mining & Mfg. Co., a, b, p, u.
Mitronics Inc., b, j, h-1.
Monogram Precision Industries, a, i, l, m, c-1, j-1, p-1.
Mucon Corp., a, r, e-1, m-1.
National Beryllia Corp., a, l.
Naz-Dar Co., e-1.
New England Scientific Instruments Co., h, i-1.
New York Coil Co., a, s.
Northern Plastics Corp., e-1.
Plastic Age Sales, Inc., w, x.
Potter Co., The, f, g, i, k thru o, r, s, u, v, x, y, a-1, e-1, g-1, k-1, l-1.
Precise Development Corp., d.
Radiation Research Corp., m, y, l-1.
Pyramid Electric Co., e, g, j, m, o, q, r, u thru z, d-1, g-1, j-1.
Radio Industries, Inc., a, f, g, r, z, e-1, m-1.
Rinco, Inc., d.
San Fernando Electric Mfg., Co., d, f, g, k, l, m, o, r, s, u, x, y, a-1, c-1, e-1, g-1, k-1, l-1.
Sangamo Electric Co., c, e, f, g, k thru p, r, s, u, v, x, y, z, a-1, c-1, e-1, g-1 thru a-1.
Southern Electronics Corp., d, g, k, l, m, s, y, z, a-1, c-1, l-1, q-1.
H. W. Sullivan Ltd., d, c-1, i-1.
Tansitor Electronics, Inc., j-1.
Technograph Printed Electronics, Inc., e-1.
Teiner Engrg. Corp., q-1.
Telectro Industries Corp., k, c-1, q-1.
Texas Capacitor Co., Div.-K-C-K Corp., g, l, n, r, s, x, y, k-1, l-1.
Tobe Deutschmann Corp., e, f, j thru o, r, s, u, v, x, y, z, a-1, c-1, e-1, g-1, k-1, l-1, m-1, o-1.
Trionics Corp., a, l, e-1.
Underwood Electric & Mfg. Co., Inc., g, p, q, h-1.
United Mineral & Chemical Corp., a, b.
U. S. Science Corp., Div.-Topp Industries, Inc., j-1.
U. S. Semiconductor Products, Inc., j-1.
Vacap Corp., p-1.
Victor R. F. & Microwave Co., o-1.
Vitro Labs., q.
Waterbury Companies, Inc., x, z.
Westlake Plastics Co., k-1.
Zenith Radio Corp., a.

CAPS, TUBE

Aerojet-General Corp.
Alden Products Co.
Anchor Metal Spinning Co., The
Arnav Aircraft Associates, Inc.
Clover Industries, Inc.
Cornell Deep Drawing Co., Div.-Lanes Industries Corp.
Hobson Brothers, Inc.
Mercury Tool & Mfg. Corp.
Mueller Brass Co.
Seamless Products Co., Inc.
Stanley-Judd Div.-The Stanley Works
Stover Co., Inc., The
Warren Components, Div. El-Tronics, Inc.

CARTRIDGES, PRESSURE PRODUCING

***MC CORMICK SELPH ASSOCIATES**

CARTRIDGES, STARTER

***AIRESEARCH MFG. CO., DIV.-THE GARRETT CORP.**
American Rocket Co.
Amoco Chemicals Corp.
Astrodyne, Inc.
Atlantic Research Corp.
Dynamic Devices, Inc.
Fulton-Irgon Corp., The
Hercules Powder Co.
***MC CORMICK SELPH ASSOCIATES**
Olin Mathieson Chemical Corp., Energy Div.
***PROPELLEX CHEMICAL DIV., CHROMALLOY CORP.**
Standard Oil Co. of Indiana

CASES

a. Diode & Transistor
b. Instrument & Meter
c. Portable
d. Transformer
e. Tubes

A&P Metal Products Mfg. Corp., b, c.
Abalon Precision Mfg. Corp., b.
Adept Industries Inc., b, c.
American Aluminum Co., a thru d.
Anchor Metal Spinning Co., The, a thru e.
Basco Metal Products, Inc., b, d.
Brooks & Perkins, Inc., b, c.
Bud Radio Inc., b, c.
Cambridge Thermionic Corp., e.
Carmody Corp., b.
Chemold Co., b.
Cornell Deep Drawing Co., Div.-Lanes Industries Corp., b, c, e.
Corning Glass Works, a.
Dahlstrom Metallic Door Co., b.
Dresser Mfg. Div., Dresser Industries, Inc.
Elzee Metal Products Co., Inc., b, c.
Great Eastern Metal Products Co., d.
Ludwig Honold Mfg. Co., c.

Ingersoll Kalamazoo Div., Borg-Warner Corp., e.
Kanarr Corp., e.
Kling Metal Spinning & Stamping Co., c.
H. Koch & Sons, b, c.
Lancaster Glass Corp., b.
Lofstrand Co., The, c.
Lone Star Plastics Co. Inc., a.
Meridian Metalcraft, Inc., a.
Mid-West Metal Products, Inc., b, c, d.
Mitronics Inc., a.
Monogram Precision Industries, e.
Motorola Inc., Military Electronics Div., a.
National Pneumatic Co., Inc., Holtzer-Cabot Divs., a, b, c.
Osborne Electronic Sales Corp., d.
Pneumafil Corp., b, e.
Precision Sheet Metal, Inc., a thru d.
Premier Metal Products Co., b, c.
Prereg Mfg. Inc., b, c, d.
Radiatronics, Inc., b, c.
Rimak, Inc., a thru e.
Roberts Industries Inc., a, b.
Milton Ross Metals Co., The, a thru d.
Silicone Insulation, Inc., d, e.
Simpson Electric Co., b.
Sinclair Mfg. Co., a.
Skydyne, Inc., a, b, c.
Southwestern Industrial Electronics Co., b, c, d.
Stanley Aviation Corp., c.
Stover Co., Inc., The, a, e.
TA Mfg. Corp., b, c.
Teiner Engrg. Corp., b.
Universal Unlimited, Inc., b, c.
Waldom Electronics Inc., b.
Warren Components, Div. El-Tronics, Inc.
Young & Rioux Woodworking Co., Inc., c.

CASINGS

American Aeroparts
American Car & Foundry, Div.-ACF Industries, Inc.
B. H. Aircraft Co., Inc.
Baker Perkins Inc.
Dresser Mfg. Div., Dresser Industries, Inc.
Goodyear Tire & Rubber Co., The, Aviation Products Div.
Ludwig Honold Mfg. Co.
Ingersoll Kalamazoo Div., Borg-Warner Corp.
Kaiser Metal Products, Inc.-Fleetwings Div.
Kirk & Blum Mfg. Co., The
Minnesota Mining & Mfg. Co.
Monogram Precision Industries
Scaife Co.-Div.-Wilson Bros.
Smith-Morris Corp.
Twigg Industries
United Mfg. Co., The
United States Rubber Co
Walbar Machine Products Inc.

CASTERS

Aircraft Tools, Inc.
Albion Industries, Inc.
Anchor Metal Spinning Co., The
Bassick Co., The, Div.-Stewart-Warner
Bud Radio Inc.
Capital City Mfg. Co.
Colson Corp., The
Crown Controls Co., Inc.
Fairbanks Co., The
Faultless Caster Corp.
National Lock Co.
Nelson Labs., Inc.
Precision Metalsmiths, Inc.
Premier Metal Products Co.
Rapids-Standard Co., Inc., The
Shenango Furnance Co., The, Centrifugally Cast Products Div.
United Supply Co.

CASTINGS

a. Centrifugal, Ferrous
b. Centrifugal, Non-Ferrous
c. Die, Ferrous
d. Die, Non-Ferrous
e. Precision, Ferrous
f. Precision, Non-Ferrous
g. Sand, Ferrous
h. Sand, Non-Ferrous

ACF Industries Inc., d, g.
Acme Brass Foundry Co. of San Antonio, Inc., h.
Airtron Inc., Div.-Litton Industries, f.
Akron Brass Mfg. Co., Inc., h.
Al-Fin Div., Fairchild Engine & Airplane Corp., b, h.
Allegheny Ludlum Steel Corp., a, e, g.
Alloy Steel Casting Co., e, g.
Alloys Unlimited Inc., f.
Alpha Metals, Inc., d, f.
Aluminum Alloys Corp., h.
Aluminum Co. of America, b, d, f, h.
American Aeroparts, a thru h.
American Agile Corp., b.
American Brake Shoe Co., a, e thru h.
American Car & Foundry, Div.-ACF Industries, Inc., g.
Ampco Metal, Inc., b, h.
Anchor Metal Co. Inc., d, f.
Arrow Tool Co. Inc., a thru h.
Austenal Co., Div.-Howe Sound Co., Microcast Products, e, f.
Auto Specialties Mfg. Co., Inc., e, g.
Avion Foundry Co p., b, f, h.
Basic Tool Industries, Inc., d, h.
Morris Bean & Co., f.
Bearium Metals Corp., h.
Bell & Howell Co., d thru f.
Belmont Smelting & Refining Works, Inc., c.
Bendix Foundries, Bendix Aviation Corp., b, d, f, h.
Bergen Carbide Co., a, b.
E. W. Bliss Co., g.
Blowers Inc., g.
Bridgeport Brass Co., d, f, h.
Bullard Co., The, h.
Celco (Constantine Engrg. Labs. Co.), b.
Casting Engineers Div., Consolidated Foundries & Mfg. Corp., e, f.
Chain Belt Co., g.
Chambersburg Engrg. Co., g.
Clark Equipment Co., g, h.
Colonial Aircraft Corp., h.
Consolidated Diesel Electric Corp., h.
C. Lee Cook Co., Airtomic Products Div., g, h.
Cooper-Bessemer Corp., The, g.
Crompton & Knowles Corp., g.
Crouse-Hinds Co., g, h.
Curtiss-Wright Corp.-Wright Aeronautical Div., c, f, h.
Dirilyte Co. of America, Inc., h.
Division Lead Co., b, d, h.
Dodge Steel Co., g.
Dollin Corp., d.
Dow Chemical Co., The, d, f, h.
Duraloy Co., The, a, g.
Eaton Mfg. Co., e.
Electric Auto-Lite Co., The, d, g.
Electric Steel Foundry Co., a, e, g.
Electro-Mechanical Products Co., f, h.
Engineered Precision Casting Co., e, f.
FXR, Inc., e, f.
Farrel Birmingham Co. Inc., a, g.
General Alloys Co., a, g.
General Electric Co., Metallurgical Products Dept., a.
Gordon Enterprises, a thru f.
Hamilton Foundry & Machine Co., The, g.
Haynes Stellite Co., Div.-Union Carbide Corp., b, e, f, h.
Hills-Mc Canna Co., h.
Hitchiner Mfg. Co., Inc., e, f.
Investment Casting Co., e, f.
Javelin Aircraft Co. Inc., c, g, h.
Kenarr Corp., d, f.
Kolcast Industries-Div. Thompson Ramo Wooldridge Inc., a, b, d, e.
Lebanon Steel Foundry, a, e, g.
Light Metals, Inc., h.
Lindgren Foundry Co., g.
Magline Inc., d, h.
Mc Pherson Corp., d, e, f, h.
Mercast Mfg. Corp., d, e.
Minneapolis-Honeywell Regulator Co., Ordnance Div., d, f.
Misco Precision Casting Co., e.
Morse Instrument Co., The, f.
Mueller Brass Co., h.
National Lead Co., c.
National Pneumatic Co., Inc., Holtzer-Cabot Divs., d, f, g, h.
Ohio Precision Castings, Inc., f, h.
Perfecto Cast, e, g.
Piasecki Aircraft Corp., e, f, h.
Precision Castings, Inc., b, f, h.
Precision Castparts Corp., a, e.
Precision Metalsmiths, Inc., d, e.
Randall Graphite Bearings, Inc., b, h.
Rolle Mfg., Co.
Saginaw Bearing Co., h.
Ray A. Scharer & Co., a thru d, g, h.
Shenango Furnace Co., The, Centrifugally Cast Products Div., a.
Sibley Machine & Foundry Corp., g.
Solon Foundry, Inc., f, h.
Stover Co., Inc., The, b, d.
Swayne, Robinson & Co., e thru h.
Techni-Cast Corp., b.
Teiner Engrg. Corp., d, f, g, h.
Titan Metal Mfg. Co., d.
True Alloys Inc., b, f, h.
U. S. Industries, Inc.
Veet Industries, b, f, h.
Vilter Mfg. Co., The, g.
Watertown Div., The New York Air Brake Co., g, h.
Waukesha Foundry Co., g, h.
Wayne Foundry & Stamping Co., h.
Wayne Pump Co., The, Div.-Symington Wayne Corp.
Wellman Bronze & Aluminum Co., f, h.
Western Automatic Machine Screw Co., Div. Standard Screw Co., g.
Western Iron & Foundry Co., Inc., c, g.
Westinghouse Electric Corp., Metals Plant, e, f.
Wheel Craft Inc., b, f.
Wilcox-Crittenden Div., North & Judd Mfg. Co., g, h.
Wisconsin Aluminum Foundry Co., Inc., h.

CASTINGS, ROTOR
See ROTOR CASTINGS

CATAPULTS

All American Engrg. Co.
Allied International Co.
American Car & Foundry, Div.-ACF Industries, Inc.
American Machine & Foundry Co., Greenwich
E. W. Bliss Co.
Breeze Corporations, Inc.
Farrel Birmingham Co. Inc.
Fulton-Irgon Corp., The
Holex, Inc.
Horkey-Moore Associates
Javelin Aircraft Co. Inc.
Kaiser Aircraft & Electronics, Div.-Kaiser Industries Corp.
Kemp Aero Products
Longren Aircraft Co., Inc.
***MC CORMICK SELPH ASSOCIATES**
Monogram Precision Industries
***PROPELLEX CHEMICAL DIV., CHROMALLOY CORP.**
Ravenna Metal Products, Div.-Standard Screw Co.
Reaction Motors Div., Thiokol Chem. Corp.
Red Lion Cabinet Co., Redco Tool Div.
Stanley Aviation Corp.
Talley Corp., The
Thiokol Chemical Corp.
U. S. Industries, Inc.
Van Zelm Associates, Inc.
Washington Aluminum Co., Inc.

CATHODE RAY TUBE CHECKERS
See CHECKERS, CATHODE RAY TUBE

CATHODES

Associated Engrg. & Mfg. Corp.
J. Bishop & Co., Platinum Works
Brom Metallurgical & Chemical Co.
Giannini Plasmadyne Corp.
Philco Corp., Government & Industrial Div.
Thomas Electronics, Inc.

CELLS, PHOTOELECTRIC

Clairex Corp.
Eastman Kodak Co.
General Electric Co., Apparatus Sales Div.
Hoffman Electronics Corp., Semiconductor Div.
ITT Labs.-Ft. Wayne
International Rectifier Corp.
Philco Corp., Government & Industrial Div.

CELLS, STANDARD

Eppley Laboratory, Inc., The
Hoffman Electronics Corp., Semiconductor Div.
Julie Research Labs., Inc.
Minneapolis-Honeywell Regulator Co., Industrial Product Group
Philco Corp., Government & Industrial Div.
Weston Instruments, Div.-Daystrom, Inc.

CELLS, THERMAL CONDUCTIVITY
See THERMAL CONDUCTIVITY CELLS

CEMENT

a. Asbestos
b. Pipe-Joint
c. Plastic
d. Rivet
e. Rubber
f. Rubber-To-Metal
g. Wood

Allied Plastics Supply Corp., b, c.
Ambroid Co. Inc., c thru g.
American Agile Corp., c.
American Latex Products Corp., c, e, f.
Arco Co., The, b.
Aristocrat Plastics, Inc., c.
Barrett-Christie Co., a, b, c.
Carl H. Biggs Co., c, f, g.
Bloomingdale Rubber Co., a thru g.
Bonny Mfg. Corp., b.
Borden Chemical Co., b thru g.
Colonial Rubber Co., f.
Connecticut Hard Rubber Co., The, e, f.
Cooper Industries, Inc.
Crane Packing Co., b.
DBM Research Corp., c.
Dayton Rubber Co., The, e, f.
Dennis Chemical Co., b, c, e, g.
Devcon Corp., a, c, e, f, g.
Du-Co Ceramics Co., g.
E. I. Du Pont De Nemours & Co., Inc., e, f.
Eagle-Picher Co., The, a.
Emerson & Cuming, Inc., a, c, e, f, g.
Fisher Scientific Co., a, e.
Furane Plastics, Inc., b, c, f, g.
General Cement Mfg. Co., Div.-Textron, Inc., c, f.
B. F. Goodrich Industrial Products Co., e, f.
Goodyear Tire & Rubber Co., The, Aviation Products Div., e.
Grant Chemical Co., Inc., b, c, e, f, g.
Haveg Industries, Inc., c.
R. M. Hollingshead Corp., c, e.
Homalite Corp., The, c, g.
Huntington Rubber Mills, e, f.
Johns-Manville, a, c, e, f.
Johns-Manville Sales Corp., e.
Lamtex Industries, Inc., c.
Leffingwell Chemical Co., f.
Louthan Mfg. Co., The, Div.-Ferro Corp., g.
Maas & Waldstein Co., a, c, e, f, g.
Marblette Corp., The, a, c.
Minnesota Mining & Mfg. Co., c thru g.
Minnesota Mining & Mfg. Co.-Adhesives, Coating & Sealers Div., e, f.
Monogram Precision Industries, c.
National Ceramic Co., g.

National Engrg. Products, Inc., b, c.
New England Tape Co., Div.-United-Carr Fastener Corp., c.
Permacel, b, c, e, f, g.
Permatex Co., Inc., b, c, e.
Presstite Div., American-Marietta, f.
Protex-A-Cote, Inc., b, c, f, g.
Raybestos-Manhattan, Inc., Pa., f.
Reinhold Engrg. & Plastics Co., a, c.
Rubbercraft Corp. of California, e, f.
Saureisen Cements Co., a, b, e, f.
Ray A. Scharer & Co., e, f.
Smooth-On Mfg. Co., b, c.
Topper Mfg. Co., Inc., a, b, c, e, f, g.
Union Asbestos & Rubber Co., a.
United States Chemical Milling Corp., g.
United States Plywood Corp., g.
United States Rubber Co., e, f.
X-Pando Corp., b, c.

CENTRIFUGAL FLOW COMPRESSOR ASSEMBLIES
See COMPRESSOR ASSEMBLIES, CENTRIFUGAL FLOW

CERAMIC PARTS

Aeronca Mfg. Corp.
American Lava Corp.
American Refractories & Crucible Corp.
Antenna & Radome Research Associates
Auburn Spark Plug Co., Inc.
B G Corp., The
Ball Machine Products Co., The
Bergen Carbide Co.
Birma Mfg. Co. Inc.
Birnbach Radio Co., Inc.
Brush Beryllium Co., The
Cambridge Thermionic Corp.
Carborundum Co., Latrobe Plant, Refractories Div.
Carborundum Co., Refractories Div.
Centralab, Div.-Globe-Union
Cooper Development Corp., Sub.-Marquardt Aircraft Co.
Corning Glass Works
Curtiss-Wright Corp., Research Div.
Curtiss-Wright Corp., Santa Barbara Div.
Delta Chemical Works, Inc.
Diamonite Products Mfg. Co.
Duramic Products Inc.
Electric Auto-Lite Co., The
Electrical Refractories Co., The
Electronic Mechanics, Inc.
Erie Resistor Corp.
Frenchtown Porcelain Co.
General Electric Co., Insulator Dept.
General Electric Co., Metallurgical Products Dept.
Gladding, McBean & Co.
International Resistance Co.
Isolantite Mfg. Corp.
***KEARFOTT CO., INC.**
Kip Electronics Corp.
Lockheed Aircraft Corp., Missiles & Space Div.
Maryland Lava Co.
Metallizing Co. of Los Angeles Inc.
Minneapolis-Honeywell Regulator Co., Ordnance Div.
Minnesota Mining & Mfg. Co.
Mitronics Inc.
Monogram Precision Industries
Motorola Inc., Military Electronics Div.
Narmco Mfg. Co.
National Beryllia Corp.
National Ceramic Co.
Norton Co.
Norton Co., New Products Dept.
Superior Steatite & Ceramic Corp.
Therm, Inc.
Thermal Refractories Corp.
Topper Mfg. Co., Inc.
United Mineral & Chemical Corp.
Zirconium Corp. of America

CERAMICS, HIGH TEMPERATURE

Aerojet-General Corp.
Aeronca Mfg. Corp.
American Latex Products Corp.
American Lava Corp.
American Refractories & Crucible Corp.
Auburn Spark Plug Co., Inc.
B G Corp., The
Brush Beryllium Co., The
Carborundum Co., Latrobe Plant, Refractories Div.
Carborundum Co., Refractories Div.
Centralab, Div.-Globe-Union
Consolidated Electrodynamics Corp.
Cooper Development Corp., Sub.-Marquardt Aircraft Co.
Corning Glass Works
Curtiss-Wright Corp., Research Div.
Curtiss-Wright Corp., Santa Barbara Div.
DBM Research Corp.
Diamonite Products Mfg. Co.
Duramic Products Inc.
Dyna-Therm Chemical Corp.
Electric Auto-Lite Co., The
Electronic Mechanics, Inc.
Erie Resistor Corp.
Frenchtown Porcelain Co.
General Electric Co., Metallurgical Products Dept.
Gladding, McBean & Co.
Haveg Industries, Inc.
Haynes Stellite Co., Div.-Union Carbide Corp.
Isolantite Mfg. Corp.
***KEARFOTT CO., INC.**
Lockheed Aircraft Corp., Missiles & Space Div.
Marquardt Aircraft Co.
Maryland Lava Co.
Metallizing Engrg. Co., Inc.
Minneapolis-Honeywell Regulator Co., Ordnance Div.
Minnesota Mining & Mfg. Co.
Mitronics Inc.
Monogram Precision Industries
Morganite, Inc.
Motorola Inc., Military Electronics Div.
National Beryllia Corp.
Norton Co.
Norton Co., New Products Dept.
Plastic Age Sales, Inc.
Thermal Refractories Corp.
Topper Mfg. Co., Inc.
Trionics Corp.
Zirconium Corp. of America

CHAIN, SMALL DRIVE

Atlas Precision Products Co.
Chain Belt Co.
Sierra Engrg. Co.

CHAINS

Atlas Precision Products Co.
Chain Belt Co.
Dodge Mfg. Corp.
Jeffrey Mfg. Co., The
Link-Belt Co.
Newbrook Machine Corp.
Stephens Adamson Mfg. Co., Seal Master Bearing Div.

CHAMBERS

a. Acoustic
b. Alpha, Nuclear
c. Environmental
d. Ionization
e. Shielded Screen
f. Temperature & Humidity
g. Test

***AC ELECTRONICS DIV., GENERAL MOTORS CORP., g.**
Aeronutronic Systems, Inc., Sub.-Ford Motor Co., c.
Aireco, Inc., c, f, g.
American Instrument Co., Inc., c, f, g.
American Research Corp., c, f.
Anchor Specialty Mfg. Co., Inc., c, g.
Anton Electronic Labs., Inc., b, d.
Applied Physics Corp., d.
***ASSOCIATED TESTING LABS., INC.,** a, c, f, g.
Astravac Corp., c, d, f, g.
Avtron Mfg., Inc., b.
Bar-Ray Products, Inc., d.
Blue M Electric Co., c, f, g.
Brown Engrg. Co., Inc., g.
Chicago Bridge & Iron Co., c, f, g.
Consolidated Electrodynamics Corp., Rochester Div., c, f.
Cooper Development Corp., Sub.-Marquardt Aircraft Co., d.
DBM Research Corp., g.
Dean Products, Inc., b, c, g.
Delta Design Engineers, Inc., c, f.
Development Engrg. Co., Inc., c, f, g.
Diversey Engrg. Co., g.
Dynamic Devices, Inc., g.
Electronic Instrument Co., Inc. (EICO), g.
Environmental Equipment Co., c, f, g.
Fisher Scientific Co., f.
Gardner Laboratory, Inc., c, f.
General Electric Co., Apparatus Sales Div., d.
General Electric Co., X-Ray Dept., d.
Giannini Plasmadyne Corp., c.
Greenbrier Instruments Inc., f, g.
Grieve-Hendry Co., Inc., e, f.
Guardite Co., Div. of American Marietta Co., c, f, g.
Paul Hardeman, Inc., c, f, g.
Harris Refrigeration Co., c, f, g.
Hicks Corp., The, c.
High Vacuum Equipment Corp., c.
Homalite Corp., The, f.
Industrial Acoustics Co., Inc., a, c, e, g.
Industrial Engrg. Corp., g.
Instruments Div.-Philips Electronics, Inc., c.
International Radiant Corp., c, f, g.
Interstate Electronics Corp., d.
Jamison Cold Storage Door Co., a, c, f, g.
Kahn & Co., Inc., g.
Land-Air Inc., d.
Ling Electronics, Inc., a, g.
Magee-Bralla & Associates, c, g.
Most Development Co., Inc., c, g.
Mc Millan Industrial Corp., e.
Missimers Inc., c, f, g.
Monogram Precision Industries, c, f, g.
Murphy & Miller Inc., c, f, g.
NRC Equipment Corp., d, g.
Newbrook Machine Corp., a thru f.
Nuclear Corp. of America, b, d.
Nuclear-Chicago Corp., d.
Peschel Electronics, Inc., g.
Project Fabrication Corp., c, f, g.
Rototest Labs., Inc., a.
Shielding Inc., a, c, e, g.
Smith-Morris Corp., b.
Space Corp., c, f, g.
State Testing Lab. Inc., c, g.
Strand Engrg. Co., b.
Surface Combustion Corp., f.
Temperature Engrg. Corp., c, f, g.
Tenney Engrg., Inc., c, f, g.
Thompson Engrg. Co., The, Missile Products Div., a, f.
Topatron, Inc., e, g.
Universal Dynamics Corp., f, g.
Winder Aircraft Corp. of Florida, g.

CHARGERS, BATTERY

Acme Electric Corp.
Aerolab Development Co.
Allis-Chalmers
Associated Engineers, Inc.
Automatic Switch Co.
Basco Metal Products, Inc.
Bogue Electric Mfg., Co.
Cornell-Dubilier Electric Corp.
Dresser Electric Co.
Electric Auto-Lite Co., The
Electro Products Laboratories, Inc.
***ETS-HOKIN & GALVAN**
Exide Industrial Div.-The Electric Storage Battery Co.
Fisher Scientific Co.
General Electric Co., Apparatus Sales Div.
General Scientific Equipment Co.
Green Rectifier Co.
Guided Missile Div.-De Havilland Aircraft of Canada, Ltd.
Knopp Inc.
Leach Corp.
Leland Airborne Products, Div.-American Machine & Foundry Co.
P. R. Mallory & Co. Inc.
Meteor Production Engrg., Inc.
Model Rectifier Corp.
J. J. Monaghan Co., Inc.
Motor Appliance Corp.
***MOTOR GENERATOR CORP.**
Motoresearch Co.
North Electric Co.
Northeastern Engrg. Inc.
D. W. Onan & Sons Inc.
Paco Electronics Co., Inc.
Peer, Inc.
Perkin Engrg. Corp.
Power Supplies Inc.
Precise Development Corp.
Reflectone Corp., The
Republic Aviation Corp.
Safety Electrical Equipment Corp.
Schauer Mfg. Corp.
Sel-Rex Corp.
Sorensen & Co., Inc.
Southwestern Industrial Electronics Co.
Sun Electric Corp., Aeronautical Div.
Syntron Co.
Technical Apparatus Builders
Telectro Industries Corp.
Terado Co.
United Control Corp.
United States Chemical Milling Corp.
United States Dynamics Corp.
Western Design, Div.-U. S. Industries, Inc.; Santa Barbara Div.
Westinghouse Electric Corp.
Willard Storage Battery Div.
Wincharger Corp., Sub.-Zenith Radio Corp.
Winder Aircraft Corp. of Florida
Winpower Mfg. Co.

CHASSIS, CABINET

Abalon Precision Mfg. Corp.
Aerodex, Inc.
Aircraft Tools, Inc.
Alden Products Co.
Alpitec, Inc.
Aluminum Co. of America
American Aluminum Co.
American Machine & Foundry Co., Government Products Group
Anchor Metal Spinning Co., The
Basco Metal Products, Inc.
Basic Tool Industries, Inc.
Benson Mfg. Co., The
Bergen Carbide Co.
Brooks & Perkins, Inc.
Bud Radio Inc.
Carmody Corp.
Centronix Inc.
Chemold Co.
Chrysler Corp., Defense Operations Div.
Cole Electric Co.
Colonial Aircraft Corp.
Cutler Metal Products Co.
Detronic Industries
Electro-Mechanical Products Co.
Elzee Metal Products Co., Inc.
Falstrom Co.
Farwell Metal Fabricating
Fletcher Mfg. Co., Inc., The
Green Rectifier Co.
Greenbrier Instruments Inc.
Hardman Tool & Engrg. Co.
Ludwig Honold Mfg. Co.
Horkey-Moore Associates
Hughes Tool Co., Aircraft Div.
Hussmann Aircraft Div.
Hycon Mfg. Co.

Industrial Tools Mfg. Corp., Sub.-Pendleton Tool Industries, Inc.
Intercontinental Mfg. Co., Inc.
Kaiser Aircraft & Electronics, Div.-Kaiser Industries Corp.
Kelsey-Hayes Co.
Kennedy Van Saun Mfg. & Engrg. Corp.
Kirk & Blum Mfg. Co., The
Leitch-Huard Corp.
Lofstrand Co., The
Longren Aircraft Co., Inc.
R. H. Lynch Mfg. Co.
Mercury Tool & Mfg. Corp.
Meridian Metalcraft, Inc.
Metal Fabricators Corp.
Mid-West Metal Products, Inc.
***MIRAX CHEMICAL PRODUCTS CORP., METAL CONTAINER DIV.**
Monogram Precision Industries
Morse Instrument Co., The
National Pneumatic Co., Inc., Holtzer-Cabot Divs.
Piasecki Aircraft Corp.
Precision Sheet Metal, Inc.
Premier Metal Products Co.
Prereg Mfg. Inc.
Red Lion Cabinet Co., Redco Tool Div.
Rimak, Inc.
Rixon Electronics Inc.
Santa Anita Engrg. Co.
Sequoia Wire & Cable Co., Div.-Mandrel Industries, Inc.
Shaw Metal Products Corp.
Skyline Products, Inc.
Smith-Morris Corp.
Southwestern Industrial Electronics Co.
Specialty Engrg. & Electronics Co.
Twin Coach Co., Aircraft-Missiles
United Aircraft Products Inc.
U. S. Industries, Inc.
United States Chemical Milling Corp.
Variety Aircraft Corp.
Watson Mfg. Co., Inc.
Winder Aircraft Corp. of Florida
Wyco Metal Products

CHASSIS HOLDERS
See HOLDERS, CHASSIS

CHASSIS, METAL

A&P Metal Products Mfg. Corp.
Abalon Precision Mfg. Corp.
Aerodex, Inc.
Aircraft Tools, Inc.
Alder Products Co.
Alpitec, Inc.
Aluminum Co. of America
American Aluminum Co.
American Machine & Foundry Co., Government Products Group
Anchor Metal Spinning Co., The
Bergen Carbide Co.
Brooks & Perkins, Inc.
Bud Radio Inc.
Capital City Mfg. Co.
Centronix Inc.
Chrysler Corp., Defense Operations Div.
Clark-Aiken Co., The
Colonial Aircraft Corp.
Conco Engrg. Works
Cornell Deep Drawing Co., Div.-Lanes Industries Corp.
Cromer Mfg. & Engrg., Inc.
Cutler Metal Products Co.
Dahlstrom Metallic Door Co.
Detronic Industries
Electro-Mechanical Products Co.
Eljay Corp.
Elzee Metal Products Co., Inc.
Falstrom Co.
Farwell Metal Fabricating
Ferris-Mfg. Co., The
Fletcher Mfg. Co., Inc., The
Graflex Inc.
Green Rectifier Co.
Hardman Tool & Engrg. Co.
Ludwig Honold Mfg. Co.
Hussman Aircraft Div.
Hycon Mfg. Co.
Industrial Tools Mfg. Corp., Sub.-Pendleton Tool Industries, Inc.
Intercontinental Mfg. Co., Inc.
Jeta, Inc.
Kaiser Aircraft & Electronics, Div.-Kaiser Industries Corp.
Kelsey-Hayes Co.
Kennedy Van Saun Mfg. & Engrg. Corp.
Kirk & Blum Mfg. Co., The
Leitch-Huard Corp.
Lofstrand Co., The
Longren Aircraft Co., Inc.
R. H. Lynch Mfg. Co.
Mercury Tool & Mfg. Corp.
Meridian Metalcraft, Inc.
Metal Fabricators Corp.
Mid-West Metal Products, Inc.
Miller Dial & Nameplate Co.
***MIRAX CHEMICAL PRODUCTS CORP., METAL CONTAINER DIV.**
Monogram Precision Industries
Morse Instrument Co., The
Motorola Inc., Military Electronics Div.
Opelika Welding, Machine & Supply Inc.
***PACKARD-BELL ELECTRONICS CORP.**
Piasecki Aircraft Corp.
Precision Sheet Metal, Inc.
Premier Metal Products Co.
Red Lion Cabinet Co., Redco Tool Div.
Rimak, Inc.
Rixon Electronics Inc.
Santa Anita Engrg. Co.
Shaw Metal Products Corp.
Skyline Products, Inc.
Smith-Morris Corp.
Stanley Aviation Corp.
Roland Teiner Co., Inc.
Turbo Machine Co.
Twin Coach Co., Aircraft-Missiles
United Aircraft Products, Inc.
Variety Aircraft Corp.
Watson Mfg. Co., Inc.
Welded Construction Inc.
Wyco Metal Products

CHECKER, CABLE

Amelco, Inc.
American Bosch Arma Corp.
American Machine & Foundry Co., Government Products Group
Anchor Specialty Mfg. Co. Inc.
Associated Research, Inc.
Bogue Electric Mfg., Co.
California Technical Industries, Div.-Textron Inc.
Consolidated Diesel Electric Corp.
Dit-Mco, Inc., Electronics Div.
Hallamore Electronics Co.
Kaiser Aircraft & Electronics, Div.-Kaiser Industries Corp.
Korda Industries
Land-Air Inc.
Motorola Inc., Military Electronics Div.
Optimized Devices, Inc.
Peschel Electronics, Inc.
Radiaphone Co. Inc.
Telectro Industries Corp.
Thomas Electronics, Inc.

CHECKERS, CATHODE RAY TUBE

Hi-Lo Manufacturing Corp.
International Research Associates
Monogram Precision Industries
Paco Electronics Co., Inc.
Precise Development Corp.
Precision Apparatus Co., Inc.
Thomas Electronics, Inc.
Tricraft Products Corp.

CHECKERS, CRYSTAL RECTIFIER

Monogram Precision Industries
Motorola Inc., Military Electronics Div.
Munston Mfg. & Service, Inc.
Paco Electronics Co., Inc.
Precision Apparatus Co., Inc.
Technical Apparatus Builders
Wright Engrg. Co.

CHECKERS, KLYSTRON TUBE

Land-Air Inc.
Philco Corp., Government & Industrial Div.
Polarad Electronics Corp.
Telerad Mfg. Corp.

CHEMICAL DEVELOPERS
See DEVELOPERS, CHEMICAL

CHEMICALS, RADIOACTIVE

***ALLIED CHEMICAL CORP., GENERAL CHEMICAL DIV.**
Bio-Rad Labs.
Bios Labs., Inc.
Curtiss-Wright Corp., Research Div.
Matheson Co., Inc., The
Minnesota Mining & Mfg. Co.
Nuclear-Chicago Corp.
United States Radium Corp.

CHEMICALS, TUBE

***ALLIED CHEMICAL CORP., GENERAL CHEMICAL DIV.**
Barium & Chemicals, Inc.
Bios Labs., Inc.
Borden Chemical Co.
E. I. Du Pont De Nemours & Co. Inc.
Kelite Corp.
Lebec Chemical Corp.
Oakite Products, Inc.
Sylvania Electric Products Inc., Chemical & Metallurgical Div.

CHEMICALS, WIRE STRIPPER

***ALLIED CHEMICAL CORP., GENERAL CHEMICAL DIV.**
Bios Labs., Inc.
Borden Chemical Co.
Division Lead Co.
General Cement Mfg. Co., Div.-Textron, Inc.
Kelite Corp.
London Chemical Co., Inc.
Matheson Co., Inc., The
Oakite Products, Inc.
Wye Industries

CHOKES

Airpax Electronics Inc. Seminole Div.
Ballastran Corp.
Barwood Electronics Inc.
Bud Radio Inc.
Cable Electric Products Inc.
Cambridge Thermionic Corp.
Carol Electronics Corp.
Chicago Standard Transformer Corp.
Clippard Instrument Lab., Inc.
Double E Products Co.
Dresser Industries, Inc.
Electrical Windings, Inc.
Era Electric Corp.
Ferranti Electric Inc.
Ferroxcube Corp. of America
Forbes & Wagner, Inc.
Forest Electric Co., The
Green Rectifier Co.
Hindle Transformer Co. Inc.
International Resistance Co.
E. F. Johnson Co.
Keystone Products Co.
Langevin Div., W. L. Maxson Corp., The
Microtran Co. Inc.
Sanford Miller Co.
Minitran Corp.
Motorola Inc., Military Electronics Div.
NYT Electronics, Inc.
National Coil Co.
National Pneumatic Co., Inc., Holtzer-Cabot Divs.
New York Transformer Co. Inc.
North Hills Electric Co., Inc.
Omega Electronic Corp.
Perry Plastics, Inc.
Raytheon Mfg. Co.
Rollan Electric Co.
Rytron Co., Inc.
Sage-Craft, Inc.
Sangamo Electric Co.
Shallcross Mfg. Co.
Signal Transformer Co.
Sterling Transformer Corp.
Technical Apparatus Builders
Torwico Electronics, Inc.
Transformer Design, Inc. of Milwaukee
Transonic, Inc.
Triad Transformer Corp.
Universal Mfg. Co., Inc.
Varo Mfg. Co., Inc.
Virginia Electronics Co., Inc.
Warren Transformer Co., Inc.
Westbury Electronics Inc.

CHROMATOGRAPHS

American Agile Corp.
American Instrument Co., Inc.
Beckman-Scientific & Process Instruments Div.
Bio-Rad Labs.
Bristol Co., The
Consolidated Electrodynamics Corp.
Fisher Scientific Co.
Greenbrier Instruments Inc.
Hallikainen Instruments
Matheson Co., Inc., The
Perkin-Elmer Corp.

CHROMATOGRAPHS, VAPOR PHASE

Beckman-Scientific & Process Instruments Div.
Bio-Rad Labs
Consolidated Electrodynamics Corp.
Fisher Scientific Co.
Hallikainen Instruments
Leeds & Northrup Co.
Matheson Co., Inc., The
Perkin-Elmer Corp.

CHRONOGRAPHS

Bristol Co., The
M. Ducommun Co.
Electro-Medical Lab., Inc.
Gaertner Scientific Corp., The
Gordon Enterprises
Hamilton Watch Co.
Hamilton Watch Co.,-Industrial Div.
Jardur Aviation Co.
Jardur Import Co.
Ernest Norman Laboratories
Systron Corp.
Union Switch & Signal, Div.-Westinghouse Air Brake Co.
Wakmann Watch Co. Inc.
Waltham Engrg. Corp.

CHRONOMETERS

Gordon Enterprises
Hamilton Watch Co.
Hamilton Watch Co.-Industrial Div.
Sphinx-American Co.
Wakmann Watch Co. Inc.
Waltham Engrg. Corp.

CHRONOSCOPES

Systron Corp.
Waltham Engrg. Corp.

CIRCUIT BREAKERS
See BREAKERS, CIRCUIT

CIRCUITS

a. Computer, Logic
b. Computer, Packaged
c. Plated
d. Plug-In

***AC ELECTRONICS DIV., GENERAL MOTORS CORP.**, a, d.
ACF Industries Inc., a.
Accurate Electronics Corp., Dept. D, a, b.
Aeronca Mfg. Corp., Baltimore Facility, b.
Aeronutronic Systems, Inc., Sub.-Ford Motor Co., a thru d.
Air Logistics Corp., d.
Airflyte Electronics Co., c, d.
American Machine & Foundry Co., Greenwich, a, b, d.
American Printed Circuits Co., Inc., c, d.
Arthur Ansley Mfg. Co., d.
Bendix Aviation Corp., York Div., a, d.
Bendix Computer, Div.-Bendix Aviation Corp., a, b, d.
Bendix Radio Div., Bendix Aviation Corp., a, d.
Briggs Associates, Inc., a.
Burr-Brown Research Corp., b, d.
Burroughs Corp., a, b.
Burton-Rodgers, Inc., b, d.
C & K Components, Inc., a, b.
Carmody Corp., b, d.
Centralab, Div.-Globe-Union, b, d.
Centronix Inc., a, b, d.
Cleveland Metal Specialties Co., Electronics Div., a, b, d.
Colorado Research Corp., b.
Computer Control Co., Inc., a, b.
Consolidated Diesel Electric Corp., d.
Control Circuits Inc., b, c, d.
Croname Inc., c.
Curtiss-Wright Electronics Div., IMI Branch, b.
DBM Research Corp., a, d.
Dalmotor Div., Yuba Consolidated Industries, Inc., a thru d.
Daven Co., The, b, d.
Daystrom Pacific Div.-Daystrom, Inc., b, d.
Dayton Aviation Radio & Equipment Corp., d.
Di-An Controls, Inc., a, b, d.
Donner Scientific Co., b.
Doty Acoustica Electronic Labs., c, d.
Double E Products Co., a thru d.
Dresser Industries, Inc., d.
Eaton Electronics Corp., c.
Eldorado Electronics, d.
Electro Precision Corp., b, d.
Electronic Communications, Inc., b.
Electronic Engrg. Co. of California, a, b, d.
Emerson Electric Mfg. Co., The, Electronics & Avionics Div., a thru d.
Erie Resistor Corp., a, d.
Federal Mfg. & Engrg. Corp., a, d.
Ferranti Electric Inc., a, b.
Ferris-Mfg. Co., The, b.
Ferrotran Electronics Co., Inc., d.
Forbes & Wagner, Inc., a.
General Electric Co., Apparatus Sales Div., a.
Gilfillan Bros. Inc., a, b.
Gladding, McBean & Co., c.
Good Electronic Corp., d.
Hallicrafters, a, b.
Hamilton Standard, Div.-United Aircraft Corp., a thru d.
Harvey-Wells Electronics Inc., a, b.
Hoffman Electronics Corp., Semiconductor Div., a, d.
Walter J. Hyatt Co., The, b.
***KEARFOTT CO., INC.**, b.
Lamtex Industries, Inc., c.
Land-Air Inc., d.
La Roe Instruments, Inc., a, b, d.
Librascope Inc., a, b.
Litton Industries, U. S. Engrg. Co., Div., a thru d.
Lockheed Aircraft Corp., Missiles & Space Div., a.
MF Electronics Co., b, d.
Milgo Electronic Corp., a, b, d.
Motorola Inc., Military Electronics Div., a thru d.
NYT Electronics, Inc., d.
National Pneumatic Co., Inc., Holtzer-Cabot Divs., d.
Navigation Computer Corp., a thru d.
North Electric Co., a, d.
Northrop Corp., a thru d.
Ohio Semiconductors, Inc., a, b.
***PACKARD-BELL ELECTRONICS CORP.**, a thru d.
George A. Philbrick Researches, Inc., b, d.
Philco Corp., Government & Industrial Div., a, b, d.
Power-Tronic Systems Inc., a thru d.
Precise Development Corp., d.
Printed Electronics Corp., c, d.
Printronics Corp., c, d.
Projects Unlimited Inc., d.
RS Electronics Corp., d.
Radiaphone Co. Inc., d.
Radiation, Inc., a, b.
Raytheon Mfg. Co., a.
Rese Engrg., Inc., a thru d.
Rixon Electronics Inc., a, b, d.
Milton Ross Metals Co., The, c, d.
Servomechanisms, Inc.
Singer Mfg. Co., The, Military Products Div., a.
Slip Ring Co. of America, c.
Soroban Engrg., Inc., a.
Southwestern Industrial Electronics Co., a thru d.
Sterling Precision Corp., Instrument Div., a, b.
Superex Electronics Corp., d.
Tapco Group, Thompson Ramo Wooldridge Inc., a.
Technitrol Engrg. Co., a, b, d.
Telechrome Mfg. Corp., a thru d.
Telectro Industries Corp., a thru d.
Topper Mfg. Co., Inc., d.
Transistor Electronics Corp., a, b.
Transonic, Inc., d.
Trionics Corp., a, d.
Vitro Labs., a thru d.
Walkirt Co., a, b, d.
Webcor, Inc., Government Div., a, d.

CIRCUITS-PRINTED, STAMPED, ETCHED

ACF Industries Inc.
Adept Industried Inc.
Aerolite Electronics Corp.
Aeronutronic Systems, Inc., Sub.-Ford Motor Co.
Air Logistics Corp.
Amelco, Inc.
Arthur Ansley Mfg. Co.
Bendix Aviation Corp., York Div.
Bendix Computer, Div.-Bendix Aviation Corp.
Bendix Radio Div., Bendix Aviation Corp.
Best Aircraft Corp.
Whitney Blake Co.
Brown Engrg. Co., Inc.
Burr-Brown Research Corp.
Burroughs Corp.
Burton-Rodgers, Inc.
Chrysler Corp., Defense Operations Div.
Cleveland Metal Specialties Co., Electronics Div.
Continental Technical Service, Inc.
Corning Glass Works
Croname Inc.
Dale Products, Inc.
Dalmotor Div., Yuba Consolidated Industries, Inc.
Dayton Aviation Radio & Equipment Corp.
Digitronics Corp.
Dorsett Labs., Inc.
Doty Acoustica Electronic Labs.
Du Kane Corp.
Eaton Electronics Corp.
Thomas A. Edison Ind. Instrument Div.-McGraw-Edison Co.
Electralab Inc.
Electronic Engrg. Co. of California
Emerson Electric Mfg. Co., The Electronics & Avionics Div.
Emerson Radio & Phonograph Corp.
Erie Resistor Corp.
Etched Products Corp.
Gladding, McBean & Co.
Globe Electrical Mfg. Co.
Good Electronic Corp.
B. F. Goodrich Aviation Products
Gulton Industries, Inc.
Hamilton Standard, Div.-United Aircraft Corp.
Harvey-Wells Electronics Inc.
Walter J. Hyatt Co., The
ITT Labs.
Land-Air Inc.
Landsverk Electrometer Co., The
La Pointe Industries Inc.
Litton Industries, Maryland Div.
Litton Industries, U. S. Engrg. Co., Div.
MF Electronics Co.
Mansfield Fabricators Inc.
Methode Mfg. Corp.
Miller Dial & Nameplate Co.
Minneapolis-Honeywell Regulator Co., Ordnance Div.
Minnesota Mining & Mfg. Co.
Motorola Inc., Military Electronics Div.
Newton Co., The
Northern Plastics Corp.
Northrop Corp.
***PACKARD-BELL ELECTRONICS CORP.**
Philco Corp., Government & Industrial Div.
Piasecki Aircraft Corp.
Power-Tronic Systems Inc.
Precision Circuits, Inc.
Printed Electronics Corp.
Printronics Corp.
Q-Circuits, Div.-Etching Co. of Calif.
RS Electronics Corp.
Rogers Corp.
Milton Ross Metals Co., The
Ryan Aeronautical Co.
St. Regis Paper Co., Panelyte Div.
Southwestern Industrial Electronics Co.
Stanley Aviation Corp.
Stavid Engrg., Inc.
Stromberg-Carlson Div.-General Dynamics Corp.
Telectro Industries Corp.
Trionics Corp.
Ucinite Co., The, Div.-United-Carr Fastener Corp.
United Electrodynamics, Inc.
United States Chemical Milling Corp.
Webcor, Inc., Government Div.
Wesrep Corp.
Westinghouse Electric Corp.
Zenith Optical Laboratory

CLAMPS

a. Conduit
b. Ground
c. Harness
d. Hose
e. Mechanical Cable
f. Special
g. Tube

Abalon Precision Mfg. Corp., b thru f.
Adel Precision Products, Div.-General Metals Corp., a, b, c, f, g.
Adel Precision Products of California, Div.-General Metals Corp., a, c, f, g.
Aero Gasket Corp., a, b, c, e, f.
Aerolite Electronics Corp., e.
Aeroquip Corp., Jackson Div., d, f, g.
***AIRESEARCH MFG. CO., DIV.-THE GARRETT CORP.**, e.
Alden Products Co., g.
Allenair Corp., f.
American Aeroparts, a thru g.
Amphenol Connector Div., Amphenol-Borg Electronics Corp., e.
Anchor Metal Spinning Co., The, f.
Atlas Precision Products, Co., f.
Augat Brothers, Inc., f, g.
W. L. Barrett Co., The, f.
Barrett-Christie Co., a, d.
Best Aircraft Corp., a thru f.
Birnbach Radio Co., Inc., f, g.
Birtcher Corp., The, f, g.
Blaco Mfg. Co., b.
Breeze Corporations, Inc., d.
Burklyn Co., f.
Cambridge Thermionic Corp., g.
Capwell Mfg. Co., c.
Century Fasteners Corp., a, c, d, e, g.
Continental Rubber Works, d.
Cooper Industries, Inc., d.
Copperweld Steel Co., Wire & Cable Div., b.
Corbin Products Div., c, f.
Crouse-Hinds Co., a.
Dakota Engrg., Inc., b, c, e, f.
Dante Electric Mfg. Co., b.
Diversey Engrg. Co., e, f.
Dresser Mfg. Div., Dresser Industries, Inc., a, b, c, f, g.
Eaton Mfg. Co., Reliance Div., d.
Elzee Metal Products Co., Inc., f.
Erie Resistor Corp., c.
Fidelity Chemical Products Corp., g.
Fisher Scientific Co., g.
Hallett Mfg., Co., a, b, c.
Heyman Mfg. Co., a.
Highland Rim Machine Works Inc., f.
Holub Industries, Inc., a, c, g.
International Electronic Research Corp., f.
Joclin Mfg. Co., c thru g.
Kickhaefer Mfg. Co., a, e, f.
Lucas Aircraft Supply Co.
Marman Div., Aeroquip Corp., d, f, g.
Monogram Precision Industries, a thru g.
Motorola Inc., Military Electronics Div., f.
National Pneumatic Co., Inc., Holtzer-Cabot Divs., e.
National Utilities Corp., d, f, g.
Panduit Corp., c.
Peerless Electronics Inc., f, g.
Rattan Mfg. Co., The, a, b.
Republic Steel Corp., a.
Fred T. Roberts & Co., c, d, g.
Rockwell-Standard Corp., d, f.
Milton Ross Metals Co., The, c.
Ryan Aeronautical Co., f.
Shur-Lok Corp., a.
Skinner Precision Products, a, f.
Smith-Morris Corp., b, d.
Solar Aircraft Co., f.
Specialty Products Corp., d, f, g.
Stanley-Judd Div.-The Stanley Works, a thru g.
Staver Co., Inc., The, g.
Stone City Products Co., f.
Surface Combustion Corp., g.
TA Mfg. Corp., a thru g.
Tinnerman Products, Inc., c thru g.
Titeflex, Inc., d, g.
Turbo Products, Inc., b, c, f, g.
United Supply Co., b, c.
Universal Metal Products Inc., a thru d, f, g.
Webcor, Inc., Government Div., f.
Wetzler Clamp Co. Inc., f.
Wittek Mfg., Co., b thru g.
Wollam Aircraft & Marine Products Co., f.

CLEANERS, CONTACT

***ALLIED CHEMICAL CORP., GENERAL CHEMICAL DIV.**
American Aeroparts
Anderson Oil & Chemical Co., Inc.
George Basch Co., The
Caig Labs.
Cincinnati Cleaning & Finishing Machinery
Clarkson Labs., Inc., The
Cobehn, Inc.
Del's Tumbling Service
Devcon Corp.
Dowell Div.-The Dow Chemical Co.
Fidelity Chemical Products Corp.
Grant Chemical Co., Inc.
R. M. Hollingshead Corp.
Kano Labs.
Kelite Corp.
London Chemical Co., Inc.
Monode Inc.
Neumade Products Corp.
Nu Steel Co.
Penetone Co., The
Protective Coatings, Inc.
Quietrole Co.
Trio Chemical Works, Inc.
Turbo Machine Co.
Vapor Blast Mfg. Co.
Wesrep Corp.

Wheelabrator Corp.
Wye Industries

CLEANERS, ULTRASONIC

Associated Engineers, Inc.
Bendix Aviation Corp., Pioneer-Central Div.
Branson Ultrasonic Corp.
Cincinnati Cleaning & Finishing Machinery
Clarkson Labs., Inc., The
Curtiss-Wright Corp.-Princeton Div.
Detrex Chemical Industries, Inc.
Dowell Div.-The Dow Chemical Co.
General Kinetics, Inc.
Grant Chemical Co., Inc.
Kelite Corp.
London Chemical Co., Inc.
Massa Div.-Cohu Electronics, Inc.
Narda Ultrasonics Corp., The
National Ultrasonic Corp.
Oakite Products, Inc.
Penetone Co., The
Power Supplies Inc.
Ransohoff, Co.
Topper Mfg. Co., Inc.
Turco Products, Inc.
Wye Industries

CLEANING COMPOUNDS
See COMPOUNDS, CLEANING

CLINOMETERS

Airguide Instrument Co.
***ENGIS EQUIPMENT CO.**

CLIPS

a. **Alligator**
b. **Battery**
c. **Conduit**
d. **Crystal Diode**
e. **Mechanical Cable**
f. **Special**
g. **Spring**
h. **Test**
i. **Tube**

AMP Inc., f.
Abalon Precision Mfg. Corp., f.
Adel Precision Products, Div.-General Metals Corp., f.
Adel Precision Products of California, Div.-General Metals Corp., c.
Aerolite Electronics Corp., a, h.
Amatom Electronic Hardware Co. Inc., a.
American Aeroparts, a, b, c.
Anchor Metal Spinning Co., The, f.
Anchor Specialty Mfg. Co. Inc., g, h.
Associated Engrg. Corp., a.
Astronautics Engrg. Co., f, h, i.
Atlas E-E Corp., d, f, g, i.
Augat Brothers, Inc., d, f, g, i.
W. L. Barrett Co., The, f, g.
Birnbach Radio Co., Inc., a, f, h.
Calinoy-Div.-Illinois Tool Works, f, g, i.
Cambridge Thermionic Corp., g.
Capital City Mfg. Co., f.
Century Fasteners Corp., c, e, g, i.
Corbin Products Div., e, f.
Datex Corp., i.
E-Z-Hook Test Products, b, f, h.
Electro-Tech Equipment Co., a, b, h.
Federal Screw Products Inc., a, b.
Fisher Scientific Co., a, i.
Garde Mfg. Co., f, g.
General Cement Mfg. Co., Div.-Textron, Inc., a.
General Scientific Equipment Co., a.
Highland Rim Machine Works Inc., f.
Hobson Brothers, Inc., g.
Industrial Timer Corp., i.
International Electronic Research Corp., i.
Javex Electronics, a, h.
Keystone Electronics Corp., b, d.
Kickhaefer Mfg. Co., c, h.
M & Q Plastic Products, c, i.
Monogram Precision Industries, f, g, i.
Mueller Electric Co., a, b, h.
National Pneumatic Co., Inc., Holtzer-Cabot Divs., a, e.
Pacific Cut Washer Co., e, f.
Reliable Spring & Wire Forms Co., g.
Rockwell-Standard Corp., f.
Milton Ross Metals Co., The, a, g.
Ray A. Scharer & Co., e.
Shur-Lok Corp., f.
C. Sjoberg & Son., c, e, f.
Smith-Morris Corp., e, f, g.
Stanley-Judd Div.-The Stanley Works, a thru i.
Stover Co., Inc., The, g, i.
Stic-Klip Mfg., Co., c, g, i.
Stone City Products Co., h.
Technical Apparatus Builders, a, b.
Teiner Engrg. Corp., e, f.
Tinnerman Products, Inc., f, g, i.
Universal Metal Products Inc., c, f, g.
Vector Electronic Co., a, h.

CLOCKS, TIME

American Aeroparts
Consolidated Productions, Inc.
M. Ducommun Co.
Electro Precision Corp.
Electro-Tech Equipment Co.
Elgin Micronics Div.-Elgin National Watch Co.
Fisher Scientific Co.
Gardner Laboratory, Inc.
Hamilton Watch Co.-Industrial Div.
***A. W. HAYDON CO., THE**
Hewlett-Packard Co.
Lux Clock Mfg. Co., Inc.
Ernest Norrman Laboratories
Patterson, Moos Div. - Universal Winding Co., Inc.
Raymond Engrg. Lab., Inc.
Research Controls
Sangamo Electric Co.
Sphinx-American Co.
Standard Electric Time Co., The
Systron Corp.
Wakmann Watch Co. Inc.
Waltham Engrg. Corp.
Waltham Precision Instrument Co.

CLOTHS, GRILL

Aviation Textile Associates
Chase Brass & Copper Co., Inc.
Duracote Corp.

CLOTHS, SPEAKER GRILLE

Aviation Textile Associates
Croname Inc.
General Cement Mfg. Co., Div.-Textron, Inc.
Peerless Products Industries
Sterling Precision Corp., Instrument Div.

CLUTCHES, MAGNETIC

Actuator Products Div., Geartronics Corp.
Analogue Controls, Inc.
Autotronics Inc.
Cameraflex Corp.
Cedar Engrg. Div.-Control Data Corp.
Curtiss-Wright Corp., Research Div.
Dial Products Co.
Digitronics Corp.
Dockendorff & Co. Inc.
Dynamic Instrument Corp.
Eaton Mfg. Co.
Exact Engrg. & Mfg. Inc.
FAE Instrument Corp.
General Electric Co., Apparatus Sales Div.
General Electro-Mechanical Corp.
Globe Industries, Inc.
Haddam Mfg. Co., The
Helipot Div.-Beckman Instruments Inc.
Hoover Electric Co.
I-T-E Circuit Breaker Co.
Jack & Heintz, Inc.
Land-Air Inc.
Lear, Inc.
Lear, Inc., Grand Rapids Div.
Lundy Mfg. Corp.
Lyndon Aircraft, Inc.
Magtrol, Inc.
Minneapolis-Honeywell Regulator Co., Ordnance Div.
Nuclear Products-Erco Div.-ACF Industries, Inc.
Paul Nurches Co.
Orbit Instrument Corp.
PIC Design Corp., Sub.-Benrus Watch Co., Inc.
Precision Methods & Machines Div. - Textron Inc.
Reeves Instrument Corp.
Servomechanisms, Inc., Mechatrol Div.
Standard Electromagnetics, Inc.
Sterling Precision Corp., Instrument Div.
Talley Corp., The
Technology Instrument Corp.
Warner Electric Brake & Clutch Co.
Wesrep Corp.
Westinghouse Electric Corp.
Wright Engrg. Co.

CLUTCHES, MOTOR & GENERATOR

Curtiss-Wright Corp., Marquette Div.
Dockendorff & Co. Inc.
Exact Engrg. & Mfg. Inc.
General Electro-Mechanical Corp.
Globe Industries, Inc.
Graphite Metallizing Corp.
Hoover Electric Co.
Jack & Heintz, Inc.
Land-Air Inc.
Lundy Mfg. Corp.
Magtrol, Inc.
Overload Control Co.
Servomechanisms, Inc., Mechatrol Div.
Talley Corp., The

COAXIAL CABLE FITTINGS
See FITTINGS, COAXIAL CABLE

CODE & TAB MARKERS

Adept Industries Inc.
W. H. Brady Co.
William Brand & Co., Inc.
Miller Dial & Nameplate Co.
Westline Products Div., Western Lithograph Co.
Zippertubing Co., The

COIL ASSEMBLIES

Ace Coil & Electronics Co.
Advanced Electronics, Inc.
Aerolite Electronics Corp.
American Measurement & Control, Inc.
Atlantic Instrument Corp., Sub.-American Electronics, Inc.
Atlas Coil Inc.
Barker & Williamson Inc.
Bendix Aviation Corp., York Div.
Brighton Corp.
Bud Radio Inc.
Cambridge Thermionic Corp.
Carruthers & Fernandez, Inc.
Clippard Instrument Lab., Inc.
Coil Co. of America
Coilcraft Inc.
Coils-Electronics
Coto-Coil Co., Inc.
Crown Controls Co., Inc.
Dayton Aviation Radio & Equipment Corp.
Dean Products, Inc.
Dietz Design & Mfg. Co.
Double E Products Co.
Dresser Industries, Inc.
Electro-Mechanical Products Co.
First Electronics Corp., The
Forbes & Wagner, Inc.
Fugle-Miller Labs. Inc.
General Coil Products Corp.
Genistron, Inc.
Goslin Electric & Mfg. Co.
Green Rectifier Co.
Hoover Electric Co.
Hussmann Aircraft Div.
Jack & Heintz, Inc.
Jet Electronics Corp.
J. W. Miller Co.
NYT Electronics, Inc.
National Coil Co.
National Pneumatic Co., Inc., Holtzer-Cabot Divs.
New York Coil Co.
North Electric Co.
North Hills Electric Co., Inc.
Palo Alto Engrg. Co.
Precision, Inc.
Projects Unlimited Inc.
Rixon Electronics Inc.
Rollan Electric Co.
Milton Ross Metals Co., The
Rytron Co., Inc.
Sage-Craft, Inc.
Signal Transformer Co.
Small Motors Inc.
Stanwyck Winding Co., Inc.
Telectro Industries Corp.
Topper Mfg. Co., Inc.
Tri-Dex Co.
U. S. Relay Co.
Vanguard Electronics Co.
Waldom Electronics Inc.
Warren Transformer Co., Inc.
A. W. Welch Mfg., Co., Inc.
Wheeler Electronic Corp., Sub.-Sperry Rand Corp.

COIL DOPE

Emerson & Cuming, Inc.
Homalite Corp., The
Liss Products, Inc.
Maas & Waldstein Co.

COIL FORMS

American Molded Products Co.
W. L. Barrett Co., The
Brighton Corp.
Cambridge Thermionic Corp.
Centralab, Div.-Globe-Union
Comco Plastics Inc.
Continental Diamond Fibre Corp.
Corning Glass Works
Dixon Corp.
Electrical Insulation Co., Inc.
Electro-Mechanical Products Co.
Emerson Plastics Corp.
Ferroxcube Corp. of America
Form-It Products, Inc.
Franklin Fibre-Lamitex Corp.
Garde Mfg. Co.
Hobson Brothers, Inc.
Hydro Molding Co., Inc.
Isolantite Mfg. Corp.
E. F. Johnson Co.
Kip Electronics Corp.
Lamtex Industries, Inc.
Thomas J. Long, Inc.
Minnesota Mining & Mfg. Co.
Molding Corp. of America
National Coil Co.
National Pneumatic Co., Inc., Holtzer-Cabot Divs.
North Electric Co.
North Hills Electric Co., Inc.
Peerless Products Industries
Penn Fibre & Specialty Co., Inc.
Pilgrim Products Inc.
Milton Ross Metals Co., The
Sanford Plastics Corp.
Silicone Insulation, Inc.
Slip Ring Co. of America
Spaulding Fibre Co., Inc.
Stevens Products, Inc.
Superior Steatite & Ceramic Corp.
Topper Mfg. Co., Inc.

COIL WINDING BOBBINS
See BOBBINS, COIL WINDING

COIL WINDING MACHINES, TOROIDAL

American Machine & Foundry Co., Greenwich
Coil Winding Equipment Co.
Continental Technical Service, Inc.
Eisler Engrg. Co., Inc.
Electro Devices Inc.
Gulton Industries, Inc.
Carl Hirschmann Co., Inc.
Industrial Winding Machinery Corp.
Johnson Electronics Inc.
Mico Instrument Co.
Southwestern Industrial Electronics Co.
Universal Mfg. Co., Inc.

COIL WINDING TENSIONS
See TENSIONS, COIL WINDING

COILS

a. AF Choke
b. Choke
c. Booster
d. Filter Choke
e. IF
f. Printed Circuit
g. RF Choke
h. RF Transmitting
i. Solenoid
j. Transducer

AMP Inc., f.
A.P.W. Co., d, i.
Ace Coil & Electronics Co., e thru h.
Acme Wire Co., b, d, i.
Adept Industries Inc., f.
Advanced Electronics, Inc., i.
Aerolite Electronics Corp., a, b, d, e, g, h, i.
Aerovox Corp., d.
Aetna Electronics Corp., h.
Airpax Electronics Inc. Seminole Div.
Aladdin Electronics, Div.-Aladdin Industries Inc., b, d thru g.
Allied Control Co., Inc., i.
All-Tronics, Inc., b, d, e, g, h.
Amelco, Inc.
American Machine & Foundry Co., Greenwich
American Measurement & Control, Inc.
Amplifier Corp. of America, a, b, d.
Artisan Electronics Corp., i.
Atlas Coil Inc.
Audio Development Co., a, d.
Barker & Williamson Inc., a, b, e, g, h, i.
Bel-Tronics Corp., a thru i.
Bendix Aviation Corp., York Div., d, e, f.
***BENDIX PRODUCTS DIV., BENDIX AVIATION CORP., i.**
J. Bishop & Co., Platinum Works, j.
Bradford Components, Inc., b, d thru g.
Brighton Corp.
Brown Engrg. Co., Inc.
Bud Radio Inc., g, h.
Burnell & Co., Inc., f.
Cambridge Thermionic Corp., a, b, d thru g, i.
Carol Electronics Corp., a, e thru h.
Carruthers & Fernandez, Inc., a, i.
Cedar Engrg. Div.-Control Data Corp., i.
Celco (Constantine Engrg. Labs. Co.), a thru j.
Central Transformer Co., a, b, d.
Cinema Engrg.
Cleveland Metal Specialties Co., Electronics Div., f.
Clippard Instrument Lab., Inc., b, d, e, g.
Coil Co. of America, a thru d, f, i.
Coilcraft Inc., b, d thru h.
Coils-Electronics, b, d, f, g, i.
Collins Radio Co.
Comar Electric Co., i.
Control Circuits Inc., i.
Corning Glass Works
Coto-Coil Co., Inc., g thru j.
Crown Controls Co., Inc.
Cycle Transformer Corp., a, b, d, i.
D. & R. Ltd.
Dalmotor Div., Yuba Consolidated Industries, Inc., i, j.
Dayton Aviation Radio & Equipment Corp., a, b, e, f, g.
Dean Products, Inc.
De Witt Development Co., f, g, i.
Dietz Design & Mfg. Co., a, b, d thru i.
Double E Products Co., a, b, d thru h.
Dresser Industries, Inc., a, b, d, i, j.
Edcliff Instruments, i.
Electric Auto-Lite Co., The, i.
Electrical Windings, Inc., a, b, d, i.
Electro-Mechanical Products Co., b, g, i.
Electronic Coils, Inc., b, d, g, i.
Electronic Transformer Co., Inc., a, b.
Electro-Tech Equipment Co., i.
Electro-Winders Co. Inc., a thru i.
Ferranti Electric Inc., a, b, d.
Ferris Mfg. Co., The, f.
Ferrotran Electronics Co., Inc., b, e, f.
Forbes & Wagner, Inc., b, e, g, i.
Forest Electric Co., The, a, b, d.
Foster Transformer Co., a, b, d, f.
Freed Transformer Co. Inc., a, d.
Fugle-Miller Labs. Inc., b, d, e, g, h, i.
General Coil Products Corp., a, b, d thru i.
Genistron, Inc.
Geotronic Labs. Inc., d.
Good Electronic Corp., f.
Good-All Electric Mfg., Co., d, h, i.
Goslin Electric & Mfg. Co., a, b, d.
Green Rectifier Co., b, d.
Guardian Electric Mfg. Co., i.
Hamilton Standard, Div.-United Aircraft Corp., i, j.
Hillburn Electronic Products Co., i.
Hindle Transformer Co. Inc., b, c, d.
Hoover Electric Co., i.
T. J. Houlihan Co., b, e thru i.
Illumitronic Engrg. Co., h.
Industrial Winding Machinery Corp.
JFD Electronics Corp., e, g, h.
Jack & Heintz, Inc., i.
Jet Electronics Corp.
E. F. Johnson Co., b, g, h.
Johnson Electronics Inc., a thru h.
Keystone Products Co., a, b, d.
Knopp Inc., d, i.
***KOONTZ-WAGNER ELECTRIC CO., INC., i.**
Langevin Div., W. L. Maxson Corp., The, a, b, d.
La Pointe Industries Inc., f.
Mac Leod & Hanopol, Inc., g.
Magnetico, Inc., a, b, d, g.
Merit Coil & Transformer Corp., a, b, d thru g.
Microtran Co. Inc.
J. W. Miller Co., b, e thru h.
Minitran Corp., a, b, d.
Modelectric Products Corp., a, e, f, i.
Motorola Inc., Military Electronics Div., a, d thru g, j.
NYT Electronics, Inc., a, b, d thru h.
National Coil Co., a thru j.
National Pneumatic Co., Inc., Holtzer-Cabot Divs., a, b, d, e, g, h, i.
Naz-Dar Co., f.
Networks Electronic Corp., e, g.
New York Coil Co., a thru j.
New York Transformer Co. Inc., a, b, d.
North Electric Co.
North Hills Electric Co., Inc., b, e thru j.
Omega Electronic Corp., g.
Opelika Welding, Machine & Supply Inc., j.
Osborne Electronic Sales Corp., a, e, g, h, j.
Palo Alto Engrg. Co., a, b, d, f.
Perry Plastics, Inc., a.
Philco Corp., Government & Industrial Div., b, d, e, g.
Pickering & Co., Inc., i, j.
Potter Aeronautical Corp.
Precision, Inc., i.
RS Electronics Corp., e, g, h.
Radio Industries, Inc., e thru h.
Douglas Randall Inc., i, j.
Redman Electronics Corp., e, g.
Reliable Spring & Wire Forms Co., g.
Research Development Mfg. Inc., g.
Rixon Electronics Inc., f.
Rollan Electric Co.
Milton Ross Metals Co., The
Rytron Co., Inc., a, b, d, e.
Sage-Craft, Inc., b, e thru j.
Sangamo Electric Co., a, b, d.
Signal Transformer Co., a thru d, f, i.
Southwestern Industrial Electronics Co., a thru j.
Standard Electromagnetics, Inc., i.
Stanwyck Winding Co., Inc., b, e thru i.
Superex Electronics Corp., a thru d, f, g.
Technical Apparatus Builders, a thru d.
Telectro Industries Corp., a thru i.
Topper Mfg. Co., Inc., a thru i.
Transco Products, Inc., i.
Transistor Electronics Corp., b.
Transonic, Inc., a, b, d, f, j.
Tresco, Inc., a, d.
Triad Transformer Corp., a, b, d, i.
Tri-Dex Co., b, i, j.
U. S. Relay Co., a thru j.
United Transformer Co., a, b, d, f, i, j.
Universal Mfg. Co., Inc.
Universal Toroid Coil Winding, Inc., a, b, d, g, j.
Vanguard Electronics Co., b, d, e, g.
Virginia Electronics Co., Inc., a, b, d, e, g, h.
Waldom Electronics Inc.
Warren Transformer Co., Inc., a thru j.
A. W. Welch Mfg., Co., Inc., a, b, d, f, g, h.
Westbury Electronics Inc., a, b, d, i.
Wheeler Electronic Corp., Sub.-Sperry Rand Corp., a thru g, i, j.
Winatic Corp., The, f, i, j.
Zenith Radio Corp., e.

COILS, HEATING

Astravac Corp.
Barker & Williamson Inc.
W. L. Barrett Co., The
J. Bishop & Co., Platinum Works
Blue M Electric Co.
Bradford Components, Inc.
Brighton Corp.
Briscoe Mfg. Co.
Carrier Corp.
Central Transformer Co.
Dean Products, Inc.
Wilbur B. Driver Co.
General Electric Co., Apparatus Sales Div.
Griscom-Russell Co., The
Hevi-Duty Electric Co.
Marlo Coil Co.
Minitran Corp.
NYT Electronics, Inc.
Precision, Inc.
Edw. Renneburg & Sons Co.
Rome-Turney Radiator Co., The
Statikil, Inc., Div.-The J.E. Doyle Co.
Trane Co., The
Tranter Mfg., Inc.
U. S. Relay Co.
York Corp.

COILS, HIGH TEMPERATURE

A.P.W. Co.
Advanced Electronics, Inc.
American Measurement & Control, Inc.
***BENDIX PRODUCTS DIV., BENDIX AVIATION CORP.**
Blue M. Electric Co.
Carruthers & Fernandez, Inc.
Chemplast, Inc.
Double E Products Co.
Electric Auto-Lite Co., The
Electronic Parts Mfg. Co., Inc.
Engelhard Industries, Inc.
Ferrotran Electronics Co., Inc.
Forbes & Wagner, Inc.
Good-All Electric Mfg. Co.
Griscom-Russell Co., The
Hevi-Duty Electric Co.
Hoover Electric Co.
T. J. Houlihan Co.
Keystone Products Co.
***KOONTZ-WAGNER ELECTRIC CO., INC.**
Marlo Coil Co.
National Coil Co.
New York Coil Co.
New York Transformer Co. Inc.
North Hills Electric Co., Inc.
Potter Aeronautical Corp.
Precision, Inc.
Douglas Randall Inc.
Edw. Renneburg & Sons Co.
Signal Transformer Co.
Thermal Refractories Corp.
Topper Mfg. Co., Inc.
Trane Co., The
Transonic, Inc.
Tranter Mfg., Inc.
U. S. Relay Co.
Warren Transformer Co., Inc.
A. W. Welch Mfg., Co., Inc.

COILS, IGNITION

Acme Wire Co.
American Aeroparts
Coil Co. of America
Electric Auto-Lite Co., The
General Products Corp.
Hallett Mfg., Co.
Modelectric Products Corp.
NYT Electronics, Inc.
New York Coil Co.
Warren Transformer Co., Inc.

COILS, INDUCTORS
See INDUCTORS, COILS

COILS, SPEAKER

Aerolite Electronics Corp.
Coil Co. of America
Electrical Windings, Inc.
General Coil Products Corp.
T. J. Houlihan Co.
Magnavox Co., The
National Coil Co.
National Pneumatic Co., Inc., Holtzer-Cabot Divs.
Osborne Electronic Sales Corp.
Perry Plastics, Inc.
Smith-Morris Corp.
Standard Metals Corp.
U. S. Relay Co.
Waldom Electronics Inc.
Warren Transformer Co., Inc.

COLD CATHODE LIGHTING
See LIGHTING, COLD CATHODE

COLLECTOR RINGS

American Felt Co.
Buhl Optical Co.
Chicago Aerial Industries, Inc.
Electro-Mechanical Products Co.
Engelhard Industries Inc., D. E. Makepeace Div.
Fletcher Mfg. Co., Inc., The
Industrial-Electrical Works
Mercury Tool & Mfg. Corp.
Metals & Controls Corp., General Plate Div.
Motorola Inc., Military Electronics Div.
Nippert Electric Products Co., The
Portland Copper & Tank Works Inc.
Milton Ross Metals Co., The
Slip Ring Co. of America
Stanley-Judd Div. - The Stanley Works
Twin Coach Co., Aircraft-Missiles

COLLIMATORS

American Optical Co., Instrument Div.
***BAUSCH & LOMB OPTICAL CO.**
Chrysler Corp., Defense Operations Div.
Davidson Mfg., Co., Inc.
Edgerton, Germeshausen & Grier, Inc.
***ENGIS EQUIPMENT CO.**
Epic, Inc.
J. W. Fecker, Inc.
Gordon Enterprises
Opto-Metric Tools, Inc.
Perkin-Elmer Corp.
Radiation Instrument Development Lab., Inc.

Zenith Optical Laboratory
Zoomar Inc.

COLORIMETERS

***BAUSCH & LOMB OPTICAL CO.**
Beckman - Scientific & Process Instruments Div.
Epic, Inc.
FXR, Inc.
Fisher Scientific Co.
Gardner Laboratory, Inc.
Instrument Development Labs., Inc.
National Spectrographic Labs., Inc.
W. A. Taylor & Co.

COLORIMETERS, PHOTOELECTRIC

Axler Associates Inc.
***BAUSCH & LOMB OPTICAL CO.**
Central Scientific Co.
Epic, Inc.
Fisher Scientific Co.
Gardner Laboratory, Inc.
Hallikainen Instruments
Instrument Development Labs., Inc.
Harold Kruger Instruments
Minneapolis - Honeywell Regulator Co., Industrial Products Group
National Spectrographic Labs., Inc.
Photomation, Inc.
Photovolt Corp.
Process & Instruments
Telechrome Mfg. Corp.

COLORIMETERS, SPECIAL PURPOSE

***BAUSCH & LOMB OPTICAL CO.**
Fisher Scientific Co.
Gardner Laboratory, Inc.
Instrument Development Labs., Inc.
Harold Kruger Instruments
National Spectrographic Labs., Inc.
Photobell Co., Inc.
Milton Roy Co.
W. A. Taylor & Co.
Telechrome Mfg. Corp.
Turbo Products, Inc.
Universal Moulded Products Corp.

COMBUSTION CHAMBER COVERS

Astronautics Engrg. Co.
Christie Machine Works
Curtiss - Wright Corp., Wright Aeronautical Div.
Curtiss - Wright Corp., Santa Barbara Div.
Dyna - Therm Chemical Corp.
Ferris - Mfg. Co., The
Finn Aeronautical Div., T. R. Finn & Co., Inc.
Grieve - Hendry Co., Inc.
Hufford Corp., The
Hupp Aviation Co.
M. W. Kellogg Co., The
***LAVELLE AIRCRAFT CORP.**
Mercury Tool & Mfg. Corp.
Minnesota Mining & Mfg. Corp.
Monogram Precision Industries
National Beryllia Corp.
Plastic Age Sales, Inc.
Portland Copper & Tank Works Inc.
Reinhold Engrg. & Plastics Co.
Edw. Renneburg & Sons Co.
***RHEEM MFG. CO., DEFENSE & TECHNICAL PRODUCTS DIV.**
Smith - Morris Corp.
Stainless Inc.
Stainless Steel Products, Inc.
Thermal Refractories Corp.
Turbo Products, Inc.
Twigg Industries

COMBUSTION CHAMBERS

American Air Filter Co., Defense Products Div.
Bell Aircraft Corp., Niagara Frontier Div.
Benson Mfg., Co., The
California Aircraft Products
Carborundum Co., Refractories Div.
Christie Machine Works
Cooper Development Corp., Sub. - Marquardt Aircraft Co.
Cromer Mfg. & Engrg., Inc.
Curtiss - Wright Corp., Research Div.
Curtiss-Wright Corp., Wright Aeronautical Div.
Diversey Engrg. Co.
Dynamic Devices, Inc.
Finn Aeronautical Div., T. R. Finn & Co., Inc.
Giannini Plasmadyne Corp.
Haveg Industries, Inc.
Hevi - Duty Electric Co.
Hufford Corp., The
Hupp Aviation Co.
M. W. Kellogg Co., The
Kelsey - Hayes Co.
***LAVELLE AIRCRAFT CORP.**
Marquardt Aircraft Co.
Mercury Tool & Mfg. Corp.
Monogram Precision Industries
National Beryllia Corp.
Norton Co.
Penn - Michigan Mfg. Corp.
Portland Copper & Tank Works Inc.
Pressed Steel Tank Co.
Reinhold Engrg. & Plastics Co.
Edw. Renneburg & Sons Co.
***RHEEM MFG. CO., DEFENSE & TECHNICAL PRODUCTS DIV.**
Smith - Morris Corp.
Stainless Inc.
Stainless Steel Products, Inc.
Temperature Engrg. Corp.
Thermal Refractories Corp.
C. W. Torngren Co., Inc.
Twigg Industries
Veet Industries
Young Development Div., Hercules Powder Co.

COMBUSTORS

Aerolab Development Co.
American Air Filter Co., Defense Products Div.
Auburn Spark Plug Co., Inc.
Budelman Electronics Corp.
Curtiss - Wright Corp. - Wright Aeronautical Div.
Dynamic Devices, Inc.
Elgin Micronics, West Coast Div. - Elgin National Watch Co.
Hamilton Standard, Div. - United Aircraft Corp.
***LAVELLE AIRCRAFT CORP.**
Marquardt Aircraft Co.
Edw. Renneburg & Sons Co.
Singer Mfg. Co., The, Military Products Div.
South Wind Div., Stewart Warner Corp.
Worner Electronic Devices

COMMERCIAL COMMUNICATIONS SYSTEM
See COMMUNICATIONS SYSTEM, COMMERCIAL

COMMUNICATIONS SYSTEM

ACF Industries Inc.
Allied International Co.
Amelco, Inc.
Automation Dynamics Corp.
***AVCO MFG. CORP., CROSLEY DIV.**
Barker Sales Co.
Bell & Gossett Co.
Bendix Radio Div., Bendix Aviation Corp.
Bogen-Presto, Div. - Siegler Corp., The
Budelman Electronics Corp.
CGS Labs., Inc.
Centronix Inc.
Chalco Engrg. Corp.
Collins Radio Co.
Communications Research Co.
Cooper Development Corp., Sub. - Marquardt Aircraft Co.
Crosby Laboratories, Inc.
Dayton Aviation Radio & Equipment Corp.
Du Kane Corp.
Edgerton, Germeshausen & Grier, Inc.
Electronic Communications, Inc.
Electronics Div., Van Norman Industries Inc.
Entron, Inc.
General Communication Co.
General Precision Lab. Inc.
Gilfillan Bros. Inc.
Goodyear Aircraft Corp.
Hallicrafters
Hammarlund Mfg. Co. Inc.
Hazeltine Electronics Div. - Hazeltine Corp.
Hoffman Labs. Div., Hoffman Electronics Corp.
Hogan Laboratories, Inc.
Hughes Aircraft Co.
ITT Federal Div., International Telephone & Telegraph Corp.
ITT Labs.
ITT - Kellogg
Instruments for Industry, Inc.
Jansky & Bailey, Inc.
Kahn Research Labs., Inc.
Land - Air Inc.
Lear, Inc.
Ling Electronics, Inc.
Litton Industries, Maryland Div.
Livingston Electronic Corp.
Magnavox Co., The
Manson Labs., Inc.
Minneapolis-Honeywell Regulator Co., Ordnance Div.
Miratel, Inc.
Monogram Precision Industries
Motorola Inc., Military Electronics Div.
National Pneumatic Co., Inc., Holtzer - Cabot Divs.
Nems Clarke Co., Div. - Vitro Corp. of America
North Electric Co.
***PACKARD - BELL ELECTRONICS CORP.**
Perry Plastics, Inc.
Philco Corp., Government & Industrial Div.
Precise Development Corp.
Prodelin Inc.
Radiation, Inc.
Raytheon Mfg. Co., Government Equipment Div.
Seeburg Corp., The
Servo Corp. of America
Singer Mfg. Co., The, Military Products Div.
Skyline Electric & Mfg. Co.
Specialty Engrg. & Electronics Co.
Stromberg - Carlson Div. - General Dynamics Corp.
Telechrome Mfg. Corp.
Telectro Industries Corp.
Telerad Mfg. Corp.
Television Utilities Corp.
Thiokol Chemical Corp.
U. S. Industries, Inc.
Virginia Electronics Co., Inc.
Webcor, Inc., Government Div.
Westinghouse Electric Corp.
Winzen Research Inc.
Worner Electronic Devices

COMMUNICATIONS SYSTEM, COMMERCIAL

Allied International Co.
Amelco, Inc.
Barker Sales Co.
Bendix Radio Div., Bendix Aviation Corp.
Bliss Electronic Corp.
Bogen-Presto Co., Div.-Siegler Corp., The
Centronix Inc.
Communications Co.
Crosby Laboratories, Inc.
Dayton Aviation Radio & Equipment Corp.
Du Kane Corp.
Entron, Inc.
Fisher Research Lab., Inc.
General Precision Lab. Inc.
Hammarlund Mfg. Co. Inc.
ITT Labs.
ITT-Kellogg
Jansky & Bailey, Inc.
Kaar Engrg. Corp.
Kahn Research Labs., Inc.
Land-Air Inc.
Ling Electronics, Inc.
Litton Industries, Maryland Div.
Miratel, Inc.
Motorola Inc., Military Electronics Div.
National Pneumatic Co., Inc., Holtzer-Cabot Divs.
North Electric Co.
Philco Corp., Government & Industrial Div.
Precise Development Corp.
Raytheon Mfg. Co.
Stromberg-Carlson Div.-General Dynamics Corp.
Telechrome Mfg. Corp.
Telectro Industries Corp.
Tele-Dynamics Inc.
Thiokol Chemical Corp.
U. S. Science Corp., Div.-Topp Industries, Inc.
Winzen Research Inc.
Worner Electronic Devices

COMMUNICATIONS SYSTEMS, INTERCOM

Barker Sales Co,
Bliss Electronic Corp.
Blonder-Tongue Labs., Inc.
Bogen-Presto Co., Div.-Siegler Corp., The
Bristol Motors Div.-Vocaline Co., of America, Inc.
Centronix Inc.
Chalco Engrg. Corp.
Continental Mfg., Inc.
Cooper Development Corp., Sub.-Marquardt Aircraft Co.
Du Kane Corp.
Electronic Communications, Inc.
Executone, Inc.
Federal Mfg. & Engrg. Corp.
Fidelity Amplifier Co.
Graflex Inc.
ITT-Kellogg
Litton Industries, Maryland Div.
Miratel, Inc.
Motorola Inc., Military Electronics Div.
National Pneumatic Co., Inc., Holtzer-Cabot Divs.
Nippert Electric Products Co., The
North Electric Co.
***PACKARD-BELL ELECTRONICS CORP.**
Perry Plastics, Inc.
Philco Corp., Government & Industrial Div.
Precise Development Corp.
Stromberg-Carlson Div.-General Dynamics Corp.
Telectro Industries Corp.
Thiokol Chemical Corp.
Unison Products, Inc.
Virginia Electronics Co., Inc.
Wheeler Electronic Corp., Sub.-Sperry Rand Corp.
Winzen Research Inc.

COMMUTATORS, SWITCHING

Advance Carbon & Electric Mfg. Co.
Aerolab Development Co.
Airflyte Electronics Co.
Alto Scientific Co., Inc.
Applied Science Corp. of Princeton
***ARNOUX CORP.**
Collectron Corp.
Computer Instruments Corp.
Cubic Corp.
Cushman Precision Industries
Electro Development Co.
Electro Tec Corp.
Electro-Mechanical Products Co.
Electro-Miniatures Corp.
Elgin Micronics Div.-Elgin National Watch Co.
General Devices, Inc.
Genisco, Inc., Instrument Div.
Graphite Metallizing Corp.
Hesco Engrg.
Instrument Development Labs., Inc.
Kauke & Co.
Land-Air Inc.
Minneapolis-Honeywell Regulator Co., Davies Labs. Div.
Minneapolis-Honeywell Regulator Co., Ordnance Div.
Motorola Inc., Military Electronics Div.
Radiation, Inc.
Slip Ring Co. of America
Talley Corp., The
Technology Instrument Corp.
Tele-Dynamics Inc.
Wang Labs., Inc.

COMPARATORS
a. Capacitance

b. Circuit Linearity
c. Dielectric
d. Iron Core
e. Q
f. Voltage

Alto Scientific Co., Inc., f.
Avien, Inc., f.
B & K Instruments, Inc., a.
Bendix Aviation Corp., York Div.
Boonton Radio Corp., a.
California Technical Industries, Div.-Textron Inc., a, b, f.
Centronix Inc., a.
Davenport Mfg. Co., f.
Delsen Corp., c.
Donner Scientific Corp., f.
Dytronics Co., a.
Electro Instruments, Inc., a, f.
Electronic Applications, Inc., a.
Electronic Instrument Co., Inc. (EICO), a.
Freed Transformer Co. Inc., a.
Graflex Inc.
Hoffman Electronics Corp., Semiconductor Div., f.
Industrial Test Equipment Co., a.
Inland Electronics Corp., a.
Julie Research Labs., Inc., f.
Kaiser Aircraft & Electronics, Div.-Kaiser Industries Corp.
Kay Electric Co., a.
Lear, Inc., Grand Rapids Div., f.
Marconi Instruments, a.
Metronix, Inc., Sub.-Assembly Products, Inc., a.
Micrometrical Mfg. Co., b.
Minneapolis-Honeywell Regulator Co., Industrial Product Group, f.
National Spectrographic Labs., Inc.
Non-Linear Systems, Inc., f.
North Hills Electric Co., Inc., a.
***PACKARD-BELL ELECTRONICS CORP., f.**
Photobell Co., Inc., a, c.
Precise Development Corp., a, f.
Rese Engrg., Inc., f.
Slaughter Co., Inc., a, b, c, f.
Soroban Engrg., Inc.
Southwestern Industrial Electronics Co., a thru f.
Tempo Instrument Inc., f.
Trio Laboratories, Inc., f.
Weston Instruments, Div.-Daystrom, Inc., f.
Wright Engrg. Co., a.

COMPARATORS, AUTOMATIC RESISTANCE

Amelco, Inc.
California Technical Industries, Div.-Textron Inc.
Centronix Inc.
Clippard Instrument Lab., Inc.
Datran Electronics, Div.-Mid-Continent Mfg., Inc.
Dytronics Co.
Electro Instruments, Inc.
Electronic Applications, Inc.
Industrial Test Equipment Co.
Julie Research Labs., Inc.
Kaiser Aircraft & Electronics, Div.-Kaiser Industries Corp.
***KEARFOTT CO., INC.**
Minneapolis-Honeywell Regulator Co., Industrial Products Group
Non-Linear Systems, Inc.
Optimized Devices, Inc.
Precise Development Corp.
Radiaphone Co. Inc.
Slaughter Co., Inc.
Telectro Industries Corp.

COMPASSES

a. Electronic Gyro
b. Gyro
c. Magnetic
d. Radio
e. Remote Indicating

Airguide Instrument Co., c.
American Aeroparts, c, e.
American Bosch Arma Corp., b.
Arma Div., American Bosch Arma Corp., b.
Belock Instrument Corp., a, b, c, e.
Bendix Aviation Corp.-Eclipse-Pioneer Div., a, b, e.
Bendix Aviation Corp.-Montrose Div., e.
Bendix Radio Div., Bendix Aviation Corp., d.
Collins Engrg. Corp., b.
Datran Electronics, Div.-Mid-Continent Mfg., Inc.
Daystrom Pacific Div.-Daystrom, Inc., b.
Fisher Research Lab., Inc., d.
General Electric Co., Apparatus Sales Div., a, b, e.
***KEARFOTT CO., INC., a thru e.**
Kollsman Instrument Corp., Sub.-Standard Coil Products Co. Inc., c.
Lear, Inc., a, b, d, e.
Lear, Inc., Grand Rapids Div., a, b, c.
Magnavox Co., The, d.
Motorola Inc., Military Electronics Div., d.
Power-Tronic Systems Inc., a, b, e.
Radiation, Inc., d.
Sperry Gyroscope Co., Marine Div., Div.-Sperry Rand Corp., b, c, e.
Sperry Piedmont Co.-Div.-Sperry Rand Corp., a, b, c, e.
Zophar Mills Inc., a.

COMPONENTS, EMBEDDED
See EMBEDDED COMPONENTS

COMPOUNDS, CLEANING

Air Logistics Corp.
Allied Chemical Corp., National Aniline Div.
Allied Research Products, Inc.
American Felt Co.
Anderson Oil & Chemical Co., Inc.
Arco Co., The
Armite Labs.
George Basch Co., The
Borden Chemical Co.
Cooper Industries, Inc.
Dels Tumbling Service
Delta Chemical Works, Inc.
Dennis Chemical Co.
Devcon Corp.
Dow Chemical Co., The
Fidelity Chemical Products Corp.
Finnell System, Inc.
Fisher Scientific Co.
Grant Chemical Co., Inc.
E. F. Houghton & Co.
R. M. Hollingshead Corp.
Joy Mfg. Co.
Kelite Corp.
London Chemical Co., Inc.
Monogram Precision Industries
Neumade Products Corp.
Oakite Products, Inc.
Penetone Co., The
Permatex Co., Inc.
Protective Coatings, Inc.
Ransohoff, Co.
Bernard Sirotta Co.
Trio Chemical Works, Inc.
Turco Products, Inc.
Wesrep Corp.
Wye Industries

COMPOUNDS, INSULATING
See INSULATING COMPOUNDS

COMPRESSOR ASSEMBLIES

Air Products, Inc.
Beach-Russ Co.
Carrier Corp.
Centrax Ltd., American Sales Office
Cornelius Co., The, Aero Div.
Cummins Engine Co., Inc.
Curtiss-Wright Corp.-Wright Aeronautical Div.
Dresser Industries, Inc.
Dunham-Bush Inc.
Finn Aeronautical Div., T. R. Finn & Co., Inc.
Joy Mfg. Co.
Kelsey-Hayes Co.
Walter Kidde & Co., Inc., Aviation Div.
Lear, Inc.
***RHEEM MFG. CO., DEFENSE & TECHNICAL PRODUCTS DIV.**
Scaife Co.- Div.-Wilson Bros.
Smith-Morris Corp.
Solar Aircraft Co.
Stainless Steel Products, Inc.
Tapco Group, Thompson Ramo Wooldridge Inc.
Task Corp.
Therm, Inc.
Turbo Products, Inc.

COMPRESSOR ASSEMBLIES, AXIAL FLOW

Air Logistics Corp.
***AIRESEARCH MFG. CO., DIV.-THE GARRETT CORP.**
Allis-Chalmers
Carrier Corp.
Centrax Ltd., American Sales Office
Christie Machine Works
Cummins Engine Co., Inc.
Curtiss-Wright Corp.-Research Div.
Curtiss-Wright Corp.-Utica Div.
Curtiss-Wright Corp.-Wright Aeronautical Div.
Dean & Benson Research, Inc.
Dresser Industries, Inc.
Finn Aeronautical Div., T. R. Finn & Co., Inc.
Jarvis Corp.
Joy Mfg. Co.
J. J. Monaghan Co., Inc.
Schellens-True Corp.
Tapco Group, Thompson Ramo Wooldridge Inc.
Therm, Inc.
Turbo Products, Inc.
Twigg Industries
Veet Industries
Westinghouse Electric Corp.

COMPRESSOR ASSEMBLIES, CENTRIFUGAL FLOW

Air Logistics Corp.
Air Products, Inc.
Allis-Chalmers
American Felt Co.
Centrax Ltd., American Sales Office
Christie Machine Works
Consolidated Diesel Electric Corp.
Cummins Engine Co., Inc.
Curtiss-Wright Corp.-Research Div.
Curtiss-Wright Corp.-Utica Div.
Curtiss-Wright Corp.-Wright Aeronautical Div.
Dresser Industries, Inc.
Hamilton Standard, Div.-United Aircraft Corp.
Kelsey-Hayes Co.
Jarvis Corp.
Joy Mfg. Co.
Stratos, Div.-Fairchild Engine & Airplane Corp.
Tapco Group, Thompson Ramo Wooldridge Inc.
Therm, Inc.
Turbo Products, Inc.
Veet Industries
Wickfield, Inc.
York Corp.

COMPRESSOR ASSEMBLIES, MOBILE

Accessory Controls & Equipment Corp.
Air Logistics Corp.
Air Products, Inc.
***AIRSEARCH MFG. CO. OF ARIZ.**
***AIRESEARCH MFG. CO., DIV.-THE GARRETT CORP.**
American Felt Co.
Beach-Russ Co.
Carrier Corp.
Consolidated Diesel Electric Corp.
Cornelius Co., The, Aero Div.
Cummins Engine Co., Inc.
Dresser Industries, Inc.
Finn Aeronautical Div., T. R. Finn & Co., Inc.
Haskel Engrg. & Supply Co.
Joy Mfg. Co.
Kelsey-Hayes Co.
Walter Kidde & Co., Inc., Aviation Div.
Lear, Inc.
United Mfg. Co., Div., The W. L. Maxson Corp.
Wickfield, Inc.

COMPRESSORS, AIR

Accessory Controls & Equipment Corp.
Air Logistics Corp.
Air Products, Inc.
***AIRESEARCH MFG. CO. OF ARIZ.**
***AIRESEARCH MFG. CO., DIV.-THE GARRETT CORP.**
Allis-Chalmers
American Felt Co.
American Instrument Co., Inc.
Applied Dynamics Corp.
Beach-Russ Co.
Carrier Corp.
Chicago Pneumatic Tool Co.
Cooper-Bessemer Corp., The
Cornelius Co., The, Aero Div.
Cummins Engine Co., Inc.
Curtiss-Wright Corp.-Utica Div.
Dresser Industries, Inc.
Dunham-Bush Inc.
Fuller Co.
Gardner-Denver Co.
Haskel Engrg. & Supply Co.
Hoover Electric Co.
Joy Mfg. Co.
Kahn & Co., Inc.
Walter Kidde & Co., Inc., Aviation Div.
Lear, Inc.
Leiman Brothers' Inc.
M. C. Mfg. Co.
Nash Engrg. Co., The
Pennsylvania Pump & Compressor Co.
Quincy Compressor Co.
Scaife Co.- Div.-Wilson Bros.
Schutte & Koerting Co.
Solar Aircraft Co.
Stainless Steel Products, Inc.
Stratos, Div.-Fairchild Engine & Airplane Corp.
Superior Pneumatic & Mfg., Inc.
Thompson Engrg. Co., The, Missile Products Div.
Trane Co., The
Waldorf Fluid Systems. Div.-F.C. Huyck & Sons
Waste King Corp., Technical Products Div.
Wayne Pump Co., The, Div.-Symington Wayne Corp.

COMPRESSORS, GAS

Air Products, Inc.
***AIRESEARCH MFG. CO., DIV.-THE GARRETT CORP.**
Allis-Chalmers
American Felt Co.
American Instrument Co., Inc.
Beach-Russ Co.
Carrier Corp.
Chicago Pneumatic Tool Co.
Christie Machine Works
Cooper-Bessemer Corp., The
Cornelius Co., The, Aero Div.
Dresser Industries, Inc.
Dunham-Bush Inc.
Fuller Co.
Gardner-Denver Co.
Haskel Engrg. & Supply Co.
Hoover Electric Co.
Joy Mfg. Co.
Leiman Brothers, Inc.
M. C. Mfg. Co.
Nash Engrg. Co., The
Pennsylvania Pump & Compressor Co.
Schutte & Koerting Co.
Solar Aircraft Co.
Stainless Steel Products, Inc.
Stratos, Div.-Fairchild Engine & Airplane Corp.
Thompson Engrg. Co., The, Missile Products Div.
Trane Co., The
Vilter Mfg. Co., The
Waldorf Fluid Systems. Div.-F.C. Huyck & Sons
Wayne Pump Co., The, Div.-Symington Wayne Corp.

COMPRESSORS, PORTABLE

Air Products, Inc.

*AIRESEARCH MFG. CO. DIV.-THE GARRETT CORP.
Beach-Russ Co.
Chicago Pneumatic Tool Co.
Cornelius Co., The, Aero Div.
Cummins Engine Co., Inc.
Curtiss-Wright Corp.-Utica Div.
Dunham-Bush Inc.
Gardner-Denver Co.
Haskel Engrg. & Supply Co.
Hoover Electric Co.
Joy Mfg. Co.
Kahn & Co., Inc.
Walter Kidde & Co., Inc., Aviation Div.
Lear, Inc.
Solar Aircraft Co.
Stratos, Div.-Fairchild Engine & Airplane Corp.
Thompson Engrg. Co., The, Missile Products Div.
Wayne Pump Co., The, Div.-Symington Wayne Corp.

COMPUTER DEMODULATORS
See **DEMODULATORS, COMPUTER**

COMPUTER, DIAGNOSTIC EQUIPMENT
See **DIAGNOSTIC EQUIPMENT, COMPUTER**

COMPUTER DISCS
See **DISCS, COMPUTER**

COMPUTER HEADS
See **HEADS, COMPUTER**

COMPUTER INPUT EQUIPMENT
Aeronutronic Systems, Inc., Sub.-Ford Motor Co.
*AIRESEARCH MFG. CO., DIV.-THE GARRETT CORP.
Alwac Corp.
Belock Instrument Corp.
Bendix Aviation Corp., York Div.
Benson-Lehner Corp.
Ernest E. Blanche & Associates, Inc.
Bogue Electric Mfg., Co.
Bristol Co., The
Burton-Rodgers, Inc.
Cedar Engrg. Div.-Control Data Corp.
Centronix Inc.
Chicago Aerial Industries, Inc.
Consolidated Diesel Electric Corp.
DBM Research Corp.
Data Instruments Div.-Telecomputing Corp.
Di-An Controls, Inc.
Dresser Industries, Inc.
Electronic Communications, Inc.
Electronic Engrg. Co. of California
Ferranti Electric Inc.
General Electric Co., Computer Dept.
General Kinetics, Inc.
Julie Research Labs., Inc.
*KEARFOTT CO., INC.
Land-Air Inc.
Librascope Inc.
Milgo Electronic Corp.
Minneapolis-Honeywell Regulator Co., Davies Labs. Div.
Minneapolis-Honeywell Regulator Co., Industrial Product Group
Morse Instrument Co., The
F. L. Moseley Co.
Motorola Inc., Military Electronics Div.
National Cash Register Co., The, Electronics Div.
Philco Corp., Government & Industrial Div.
Radiation, Inc.
Singer Mfg. Co., The, Military Products Div.
Soroban Engrg., Inc.
Sterling Precision Corp., Instrument Div.
Systron Corp.
Technitrol Engrg. Co.
Thompson-Ramo-Wooldridge Products Co., The
Trio Laboratories, Inc.
United Electrodynamics, Inc.
Victor Adding Machine Co.
Vitro Labs.
Wang Labs., Inc.
Wright Engrg. Co.

COMPUTER MATRIXES
See **MATRIXES COMPUTER**

COMPUTER OUTPUT EQUIPMENT
Aeronutronic Systems, Inc., Sub.-Ford Motor Co.
*AIRESEARCH MFG. CO., DIV.-THE GARRETT CORP.
Alwac Corp.
Belock Instrument Corp.
Bendix Aviation Corp., York Div.
Ernest E. Blanche & Associates, Inc.
Bristol Co., The
Burton-Rodgers, Inc.
Cedar Engrg. Div.-Control Data Corp.
Centronix Inc.
Chicago Aerial Industries, Inc.
Consolidated Diesel Electric Corp.
DBM Research Corp.
Di-An Controls, Inc.
Dresser Industries, Inc.
Electronic Communications, Inc.
Electronic Engrg. Co. of California
General Electric Co., Computer Dept.
Julie Research Labs., Inc.
*KEARFOTT CO., INC.
Land-Air Inc.
Librascope Inc.
Milgo Electronic Corp.
F. L. Moseley Co.
Motorola Inc., Military Electronics Div.
National Cash Register Co., The, Electronics Div.
Non-Linear Systems, Inc.
Philco Corp., Government & Industrial Div.
Radiation, Inc.
Sanborn Co.
Singer Mfg. Co., The, Military Products Div.
Soroban Engrg., Inc.
Sterling Precision Corp., Instrument Div.
Systron Corp.
Tapco Group, Thompson Ramo Wooldridge Inc.
Technitrol Engrg. Co.
Telectro Industries Corp.
Thompson-Ramo-Wooldridge Products Co., The
Victor Adding Machine Co.
Vitro Labs.
Wang Labs., Inc.
Wright Engrg. Co.

COMPUTER READOUT DEVICES
See **READOUT DEVICES, COMPUTER**

COMPUTERS
a. Analog
b. Course Line
c. Data Processing
d. Digital
e. Navigation
f. Offset Track
g. Storage, Electrostatic
h. Storage, Ferroelectric
i. Storage, Magnetic

*AC ELECTRONICS DIV., GENERAL MOTORS CORP., a, d, e.
ACF Industries Inc., a, d.
Acromag Inc., a, e.
Advanced Electronics Mfg. Corp., i.
Aerojet-General Corp., a
Aeronca Mfg. Corp., Baltimore Facility, d
Aeronutronic Systems, Inc., Sub.-Ford Motor Co., c, d, e, h, i.
Air Logistics Corp.
*AIRESEARCH MFG. CO. OF ARIZ., a, i.
*AIRESEARCH MFG. CO., DIV.-THE GARRETT CORP., a.
Airpax Electronics Inc. Seminole Div., d.
Allegany Instrument Co., Inc., a
Alwac Corp., c, d, i.
American Bosch Arma Corp., a, d, e.
American Electronics, Inc., c.
American Electronics, Inc., Taller & Cooper Div., c, d
Analogue Controls, Inc., a.
Applied Science Corp. of Princeton, c.
Arma Div., American Bosch Arma Corp., a, d.
Atlas Precision Products, Co., a, e.
*AVCO MFG. CORP., CROSLEY DIV., c, e.
Beckman Instruments, Inc., Berkeley Div., a
Beckman-Systems Div., a, c, d.
Belock Instrument Corp., a, c, d, e.
Bendix Aviation Corp., Eclipse-Pioneer Div., a, b, d, e, f.
Bendix Aviation Corp., York Div., c, d.
Bendix Computer, Div.-Bendix Aviation Corp., a, c, d.
Ernest E. Blanche & Associates, Inc., c, d.
Bowmar Instrument Corp., d, e.
Briggs Associates, Inc., c, d.
Bristol Co., The, a, d.
Burroughs Corp., a thru h.
Burton-Rodgers, Inc., a, b.
CDC Control Services, Inc., a.
CGS Labs., Inc., c.
Centronix Inc., a, c, d, e, i.
Chicago Aerial Industries, Inc., a, e.
Christie Machine Works, c, d.
Clary Dynamics, d, i.
Clifton Precision Products Co., Inc., e.
Collins Radio Co., a, e.
Colorado Research Corp., a, e.
Computer Control Co., Inc., c, d, i.
Computer Engrg. Associates, Inc., a.
Consolidated Avionics Corp., c, d.
Consolidated Diesel Electric Corp., a, c, d.
Control Circuits Inc., d.
Control Data Corp., c, d.
Cooper Industries, Inc., e.
Curtiss-Wright Corp., Electronics Div., a, d.
Dalmotor Div., Yuba Consolidated Industries, Inc., a, c, d.
Datex Corp., c.
Davenport Mfg. Co., a, d.
Daystrom Pacific Div.-Daystrom, Inc., a, b, e.
Device Development Corp., a.
Di-An Controls, Inc., c, d, e, i.
Digitronics Corp., c, d.
Donner Scientific Co., a, c, e.
Dorsett Labs., Inc., a, d.
Dresser Industries, Inc., a, c, d, i.
Eldorado Electronics, a.
Electro Instruments, Inc., c.
Electro Precision Corp.
Electro-Measurements Inc., a.
Electronic Communications, Inc., a, c, e, i.
Electronic Engrg. Co. of California, c, d.
Electronic Tube Corp., c.
Emeloid Co., Inc., The, e.
Emerson Electric Mfg. Co., The, Electronics & Avionics Div., a, c, d.
Emerson Radio & Phonograph Corp., a, c, e.
Ensco, Inc., a.
Exact Engrg. & Mfg. Inc., e.
Feedback Controls, Inc., a, e.
Ferranti Electric Inc., c, d, i.
Flight Research, Inc., e.
Forbes, George F., Industrial Mathematician, a, d.
Ford Instrument Co., Div.-Sperry Rand Corp., a thru e.
General Electric Co., Apparatus Sales Div., a, c, d, i.
General Electric Co., Computer Dept., a, c, d, i.
General Precision Lab. Inc., e, f.
G. M. Giannini & Co., Inc., a, c, d.
Gilfillan Bros. Inc., a thru e, g.
Goodyear Aircraft Corp., a, c, e.
Hagan Chemicals & Controls, Inc., c.
Haller, Raymond & Brown Inc. Div., Singer Mfg. Co. d.
Hallicrafters, c, d.
Harvey-Wells Electronics Inc., c, d.
Hazeltine Electronics Div.-Hazeltine Corp., c, e, f.
Hoffman Labs. Div., Hoffman Electronics Corp., e.
Hughes Aircraft Co., d, e.
Hughes Tool Co., Aircraft Div.
Walter J. Hyatt Co., The, a, e.
ITT Federal Div., International Telephone & Telegraph Corp., a, c thru f.
ITT Labs., a, c, d, e, g, h, i.
ITT Labs.,-Ft. Wayne, g.
Industrial Control Co., a.
Instrument Development Labs., Inc., a.
Instrumentation Div.-Ampex Corp., i.
International Business Machines Corp.-Military Products Div., b, c, d.
Jansky & Bailey, Inc., e.
Jardur Aviation Co., e.
Jardur Import Co., e.
*KEARFOTT CO., INC., a thru f, h, i.
Kelsey-Hayes Co., a.
Kinevox Div.-Electromation Co., c, e.
Kollsman Instrument Corp., Sub.-Standard Coil Products Co., Inc., a, e.
Land-Air Inc., e.
Lear, Inc., a thru f.
Lear, Inc., Grand Rapids Div., a, e.
Leeds & Northrup Co., a.
Librascope Inc., c, d, e, i.
Litton Industries, Inc., c, d, e, i.
Litton Industries, Maryland Div., a.
Lockheed Aircraft Corp., Missiles & Space Div., d, h.
Magnavox Co., The, a.
W. L. Maxson Corp., The, a, b, d, e.
Mergenthaler Linotype Co., a, c.
Mid-Century Instrumatic Corp., a, c.
Milgo Electronic Corp., a.
Minneapolis-Honeywell Regulator Co., Aeronautical Div., a, c, d, e.
Minneapolis-Honeywell Regulator Co., Industrial Div., c.
Minneapolis-Honeywell Regulator Co., Industrial Product Group, c, d.
Minneapolis-Honeywell Regulator Co., Ordnance Div., a, d.
Missouri Research Labs., Inc., e.
Motorola Inc., Military Electronics Div., a thru f, h, i.
National Cash Register Co., The, Electronics Div., b, c, d, g, h.
Navigation Computer Corp., c thru f.
Northrop Corp., a, d, e, i.
Northrop Corp., The, Nortronics Div., a, d, e, h.
Norton Associates, Inc., i.
Nuclear Products-Erco Div.-ACF Industries, Inc., a.
Ohio Semiconductors, Inc., a.
*PACKARD-BELL ELECTRONICS CORP., c, d.
Perkin-Elmer Corp., a.
George A. Philbrick Researches, Inc., a.
Philco Corp., Government & Industrial Div., c, d, e.
Power-Tronic Systems Inc., a, c, e, f.
Radiation, Inc., a, c, d.
Ramo-Wooldridge Div., Thompson Ramo Wooldridge of Calif., a, c, d.
George Rattray & Co., a.
Raymond Engrg. Lab., Inc., d.
Raytheon Mfg. Co., Government Equipment Div., a, c, d, e, g.
Reeves Instrument Corp., a, e.
Reflectone Corp., The, e.
Remington Rand Univac Div.-Sperry Rand Corp., b, c, d.
Republic Aviation Corp., c.
Rese Engrg., Inc., i.
Royal Industries, Inc., a, d.
Ryan Aeronautical Co., e.
Servo Corp. of America, d.
Servomechanisms, Inc., a, d.
Singer Mfg. Co., The, Military Products Div., a, b, c, g, h, i.
Skiatron Electronics & Television Corp., a, e.
Solar Aircraft Co., a, d.
Solartron Inc., a, c.
Soroban Engrg., Inc., c, d.
Southwestern Industrial Electronics Co., a thru i.
Sperry Farragut Co., Div.-Sperry Rand Corp., a, d, e.
Sterling Precision Corp., Instrument Div., e.
Summers Gyroscope Co., a.
Tapco Group, Thompson Ramo Wooldridge Inc., c.
Technitrol Engrg. Co., c, d.
Telechrome Mfg. Corp., a, d.
Telectro Industries Corp., a, b, c, i.
Telemeter Magnetics, Inc., c, h, i.
Thompson-Ramo-Wooldridge Products Co., The, c, d.
Transistor Electronics Corp., i.

Trionics Corp., a, d, i.
U. S. Science Corp., Div.-Topp Industries, Inc., a, c, e.
Victor Adding Machine Co., c, d.
Vitro Labs., c, d, h, i.
Waldorf Electronics. Div.-F. C. Huyck & Sons, a, b, d, e.
Waltham Electronics Corp., a, d.
Wang Labs., Inc., b, d, h, i.
Wayne-George Corp., c.
Webcor, Inc., Government Div., a thru i.
Westinghouse Electric Corp., a, d.

COMPUTERS, AIR DATA

Aeronutronics Systems, Inc., Sub-Ford Motor Co.,
***AIRESEARCH MFG. CO., DIV.-THE GARRETT CORP.**
Applied Science Corp. of Princeton
Atlas Precision Products, Co.
***AVCO MFG. CORP., CROSLEY DIV.**
Bendix Aviation Corp., Eclipse-Pioneer Div.
Ernest E. Blanche & Associates, Inc.
Centronix Inc.
Consolidated Controls Corp.
Cooper Industries, Inc.
Dalmotor Div., Yuba Consolidated Industries, Inc.
Daystrom Pacific Div.-Daystrom, Inc.
Elgin Micronics Div.-Elgin National Watch Co.
Fairchild Astrionics Div., Fairchild Engine & Airplane Corp.
Fairchild Controls Corp., Components Div.
Feedback Controls, Inc.
Ford Instrument Co., Div.-Sperry Rand Corp.
General Precision Lab. Inc.
G. M. Giannini & Co., Inc.
Goodyear Aircraft Corp.
Harvey-Wells Electronics Inc.
Hughes Aircraft Co.
ITT Federal Div., International Telephone & Telegraph Corp.
ITT Labs.
***KEARFOTT CO., INC., LITTLE FALLS, N. J.**
Kollsman Instrument Corp., Sub.-Standard Coil Products Co. Inc.
Land-Air Inc.
Lear, Inc.
Lear, Inc., Grand Rapids Div.
***WALLACE O. LEONARD, INC.**
Librascope Inc.
Litton Industries, Inc.
W. L. Maxson Corp., The
Mergenthaler Linotype Co.
Minneapolis-Honeywell Regulator Co.-Aeronautical Div.
Motorola Inc., Military Electronics Div.
***PACKARD-BELL ELECTRONICS CORP.**
Philco Corp., Government & Industrial Div.
Radiation, Inc.
Servomechanisms, Inc.
Southwestern Industrial Electronics Co.
Specialties, Inc.
Summers Gyroscope Co.
United Control Corp.
U. S. Industries, Inc.
U. S. Science Corp., Div.-Topp Industries, Inc.
Vitro Labs.
Waldorf Electronics Div.-F. C. Huyck & Sons
Webcor, Inc., Government Div.

CONDITIONING EQUIPMENT, THERMAL
See THERMAL CONDITIONING EQUIPMENT

CONDUITS
a. Electric
b. Fiber
c. Ignition Wire
d. Metal
e. Metal, Flexible
f. Metal, Non-Flexible

Adam Metal Supply Inc., f.
American Brass Co., The, a, d, e, f.
Anaconda Metal Hose Div., The American Brass Co., a, e.
Breeze Corporations, Inc., e.
Bridgeport Brass Co., a, d, e.
Carrier Corp., f.
Century Fasteners Corp., d, e.
Chase Brass & Copper Co., Inc., a, d.
Collins Engrg. Corp., a.
Continental Diamond Fibre Corp., a, b.
Co-Operative Industries, Inc., a, c, e.
D K Mfg. Co., d, e, f.
***ETS-HOKIN & GALVAN, f.**
Federal Metal Hose Corp., e.
Flexaust Co., The, a, d, e.
Flexible Metal Hose Mfg. Co., a, e.
***FLEXONICS CORP., AERONAUTICAL DIV., e.**
Fromson Orban Co., Inc., d.
General Cable Corp., a, d, e, f.
General Electric Co., Wire & Cable Dept., a, d.
General Plastics Corp. of New Jersey, b.
Hallett Mfg., Co., a, c thru f.
Haveg Industries, Inc., b.
Johns-Manville, a, b.
Kling Metal Spinning & Stamping Co., f.
Marco Industries Co., e.
Metaplast Corp., c.
Minnesota Mining & Mfg. Co., a thru e.
Newbrook Machine Corp., f.
Panduit Corp., b.
Ravenna Metal Products, Div.-Standard Screw Co., e.
Republic Steel Corp., d, f.
Rome Cable Corp., Sub.-Aluminum Co. of America, a, d, e, f.
Saylor Electric Products Corp., a.
Teleflex Inc., d, e.
United Wire & Supply Corp., d.
Wilmington Fibre Specialty Co., b.
Wiremold Co., The., a.

CONES, EXHAUST

Anchor Metal Spinning Co., The
B. H. Aircraft Co., Inc.
Basic Tool Industries, Inc.
Benson Mfg., Co., The
California Aircraft Products
Chemold Co.
Christie Machine Works
Curtiss-Wright Corp.-South Bend Div.
Curtiss-Wright Corp.-Wright Aeronautical Div.
Diversey Engrg. Co.
Dresser Industries, Inc.
Dresser Mfg. Div., Dresser Industries, Inc.
Fletcher Mfg. Co., Inc., The
Haveg Industries, Inc.
Hufford Corp., The
Hupp Aviation Co.
Ingersoll Kalamazoo Div., Borg-Warner Corp.
Intercontinental Mfg. Co., Inc.
Kaiser Aircraft & Electronics, Div.-Kaiser Industries Corp.
Kaiser Metal Products, Inc. - Fleetwings Div.
Kanarr Corp.
M. W. Kellogg Co., The
Kelsey-Hayes Co.
Kling Metal Spinning & Stamping Co.
***LAVELLE AIRCRAFT CORP.**
Machine Products Div., New Haven Trap Rock Co.
Mercury Tool & Mfg. Corp.
Minnesota Mining & Mfg. Co.
Monogram Precision Industries
National Beryllia Corp.
Norris-Thermador Corp.
Norton Co.
Norton Co., New Products Dept.
Parts Engrg. Co., Inc.
Penn-Michigan Mfg. Corp.
Perry Plastics, Inc.
Piasecki Aircraft Corp.
Plastic Age Sales, Inc.
Portland Copper & Tank Works Inc.
Precision Sheet Metal, Inc.
Pressed Steel Tank Co.
Raybestos-Manhattan, Inc., Pa.
Reinhold Engrg. & Plastics Co.
Edw. Renneburg & Sons Co.
***RHEEM MFG. CO., DEFENSE & TECHNICAL PRODUCTS DIV.**
C. F. Roark Welding & Engrg. Co., Inc.
Rohr Aircraft Corp.
Rolock Inc.
Ryan Aeronautical Co.
Scaife Co.-Div.-Wilson Bros.
Silicone Insulation, Inc.
Smith-Morris Corp.
Stainless Steel Products, Inc.
Swedlow Inc.
Tapco Group, Thompson Ramo Wooldridge Inc.
Teiner Engrg. Corp.
Thermal Refractories Corp.
C. W. Torngren Co., Inc.
Turbo Products, Inc.
Twigg Industries
Twin Coach Co., Aircraft-Missiles
United Aircraft Products, Inc.
Waste King Corp., Technical Products Div.
Wheland Co., The
Wilks Precision Instrument Co., Inc.
Young Development Div., Hercules Powder Co.

CONES, SPEAKER

Anchor Metal Spinning Co., The
Chemold Co.
Magnavox Co., The
Perry Plastics, Inc.
Plastic Age Sales, Inc.
Smith-Morris Corp.
Waldom Electronics Inc.

CONNECTOR, OXYGEN EQUIPMENT

American Aeroparts
Aro Equipment Corp.
Carmac Aviation
Dresser Mfg. Div., Dresser Industries, Inc.
Essex Mfg., Co., Inc.
Walter Kidde & Co., Inc., Aviation Div.
H. Koch & Sons
Harold Kruger Instruments
Monogram Precision Industries
Parts Engrg. Co., Inc.
Puritan Compressed Gas Corp., Aviation Div.
Ronan & Kunzl, Inc.

CONNECTORS
a. Electric Subminiature
b. Miniature
c. Printed Circuit
d. Rack & Panel
e. RF

AMP Inc., a thru d.
Abalon Precision Mfg. Corp., d.
Accurate Electronics Corp., Dept. D, a, b, c.
Aerolite Electronics Corp., b.
Aircom Inc., d.
Aircraft Controls Co., Div., Gorn Electric Co., Inc., b, c, d.
Alden Products Co., d.
American Aeroparts, a, b, d.
American Standard Products, Inc.
Amphenol Connector Div., Amphenol-Borg Electronics Corp., a thru e.
Amphenol Western Div., Amphenol-Borg Electronics Corp., e.
Anton Electronic Labs., Inc., a thru e.
Armel Electronics, Inc., a thru d.
Avnet Corp., b, d.
W. A. Beauchaine & Sons Inc., d.
Bendix Aviation Corp., Scintilla Div., b, d.
Birnbach Radio Co., Inc., b, c, d.
Burndy Corp., Omaton Div., b thru e.
Cable Electric Products Inc., a, b.
Cambridge Thermionic Corp., b, c.
***CANNON ELECTRIC CO., a thru e.**
Century Fasteners Corp., b.
Chemold Co., d.
Cleveland Metal Specialties Co., Electronics Div., c.
Coaxial Connector Co., Inc., b, e.
Cole Electric Co., d, e.
Connector Corp. of America, e.
Consolidated Electrodynamics Corp., b.
Continental Connector Corp., a thru d.
Dage Electric Co., Inc., a, b, e.
Dialight Corp., b.
R. C. Dudek & Co., a thru d.
E-Z-Hook Test Products
Elco Corp., a thru d.
Electrical Insulation Co., Inc., a, b, c.
Electro Tec Corp., a.
Electrocraft, Inc., b.
Entron, Inc., e.
***ETS-HOKIN & GALVAN, d.**
Furane Plastics, Inc., c.
G. W. Galloway Co., b.
Garde Mfg. Co., c, d, e.
General R-F Fittings, Inc., b, e.
Glasseal Products Co., Inc., d.
Good Electronic Corp., c.
Good-All Electric Mfg. Co., a thru e.
Gulton Industries, Inc., a.
Hallett Mfg., Co., e.
Hampden Mfg. Co., Inc., b.
Indusl. Prod.-Danbury Knudsen Div., Amphenol-Borg Electronics Corp., b, d, e.
Javex Electronics, b, d.
Jettron Products, Inc., a, b, c.
Joclin Mfg. Co., b.
E. F. Johnson Co.
Howard B. Jones Div.-Cinch Mfg. Corp., a, b, c.
Korda Industries, a.
Kulka Electric Corp., c.
La Pointe Industries Inc., c.
Malco Mfg. Co., a, b, c.
Meridian Metalcraft, Inc., e.
Methode Mfg. Corp., b, c, d.
Microdot Inc., a, b, c, e.
Microwave Associates, Inc., e.
Minnesota Mining & Mfg. Co.
Molding Corp. of America, a, b.
Frank W. Morse Co., b.
Motorola Inc., Military Electronics Div., c.
National Pneumatic Co., Inc., Holtzer-Cabot Divs., d, e.
National Tel-Tronics Corp., a, b.
North Electric Co., a, d.
Nugent Electronics Co., Inc., a, b, c.
Philco Corp., Government & Industrial Div., a, b, c.
Plasteck, Inc., a, b, c.
Radar Design Corp., e.
***REDEL INC., a, b, c.**
Edw. Renneburg & Sons Co., d.
Research Development Mfg. Inc., e.
Milton Ross Metals Co., The, a, b, c.
Savage-Rowe Plating Co., Inc.
Shur-Lok Corp.
C. Sjoberg & Son, a, b.
Stanley-Judd Div.-The Stanley Works, a, d.
Tamar Electronics, Inc., e.
Tap-A-Line Mfg. Co., d.
Tapco Group, Thompson Ramo Wooldridge Inc., e.
Titeflex, Inc., b.
Tower Mfg. Corp., d.
Transco Products, Inc., e.
Transistor Electronics Corp., c.
Tru-Connector Corp., e.
Ucinite Co., The, Div.-United-Carr Fastener Corp., c.
U. S. Components, Inc., a thru d.
United States Chemical Milling Corp., c.
United Supply Co., b, e.
Waltham Engrg. Corp., a, b, c.
Waltham Horological Corp., a, b, c, e.
Western International Co., a, b, d, e.
Westwood Cable Corp., e.
E. B. Wiggins Oil Tool Co. Inc., b, d.
Winchester Electronics, Inc., a thru e.

CONNECTORS, ELECTRICAL FIREWALL

***AIRESEARCH MFG. CO., DIV.-THE GARRETT CORP.**
Amphenol Connector Div., Amphenol-Borg Electronics Corp.
Anton Electronic Labs., Inc.
Bendix Aviation Corp., Scintilla Div.

*CANNON ELECTRIC CO.
Century Fasteners Corp.
Cole Electric Co.
R. C. Dudek & Co.
General R-F Fittings, Inc.
Gladding, McBean & Co.
Good-All Electric Mfg. Co.
Joy Mfg. Co.
U. S. Industries, Inc.
United Supply Co.
E. B. Wiggins Oil Tool Co., Inc.
Winchester Electronics, Inc.

CONNECTORS, HIGH VOLTAGE

AMP Inc.
*AIRESEARCH MFG. CO., DIV.-THE GARRETT CORP.
Alden Products Co.
Amphenol Connector Div., Amphenol-Borg Electronics Corp.
Anton Electronic Labs., Inc.
Armel Electronics, Inc.
Auburn Spark Plug Co., Inc.
Bendix Aviation Corp., Scintilla Div.
*CANNON ELECTRIC CO.
Coaxial Connector Co., Inc.
Cole Electric Co.
Continental Connector Corp.
Eagle Electric Mfg. Co., Inc.
Elco Corp.
Electro Tec Corp.
Good-All Electric Mfg. Co.
Hobson Brothers, Inc.
Joclin Mfg. Co.
E. F. Johnson Co.
Joy Mfg. Co.
Molding Corp. of America
Tapco Group, Thompson Ramo Wooldridge Inc.
Western International Co.
Winchester Electronics, Inc.

CONNECTORS, INTER-STAGE BREAKAWAY

*CANNON ELECTRIC CO.

CONNECTORS, MICROPHONE

Amphenol Connector Div., Amphenol-Borg Electronics Corp.
Birnbach Radio Co., Inc.
*CANNON ELECTRIC CO.
Cole Electric Co.
Dialight Corp.
Elco Corp.
Electrocraft, Inc.
Howard B. Jones Div.-Cinch Mfg. Corp.
National Tel-Tronics Corp.
Perry Plastics, Inc.
Switchcraft, Inc.
Waltham Horological Corp.
Western International Co.

CONNECTORS, POWER

Accurate Electronics Corp., Dept. D.
*AIRESEARCH MFG. CO., DIV.-THE GARRETT CORP.
Amphenol Connector Div., Amphenol-Borg Electronics Corp.
Anton Electronic Labs., Inc.
Armel Electronics, Inc.
W. A. Beauchaine & Sons Inc.
Bendix Aviation Corp., Scintilla Div.
Burndy Corp., Omaton Div.
*CANNON ELECTRIC CO.
Cole Electric Co.
Continental Connector Corp.
Elco Corp.
*ETS-HOKIN & GALVAN
G. W. Galloway Co.
Javex Electronics
Howard B. Jones Div.-Cinch Mfg. Corp.
Joy Mfg. Co.
Pyle-National Co., The
Royal Electric Corp.
Specialty Engrg. & Electronics Co.
Superior Electric Co., The
Ucinite Co., The, Div.-United-Carr Fastener Corp.
U. S. Components, Inc.
Waltham Horological Corp.
Western International Co.
Winchester Electronics, Inc.

CONNECTORS, PRESSURIZED

Amphenol Connector Div., Amphenol-Borg Electronics Corp.
Bendix Aviation Corp., Scintilla Div.
Burndy Corp., Omaton Div.
*CANNON ELECTRIC CO.
Carmac Aviation
Coaxial Connector Co. Inc.
Cole Electric Co.
Continental Connector Corp.
General R-F Fittings, Inc.
Good-All Electric Mfg. Co.
Joclin Mfg. Co.
Joy Mfg. Co.
Microdot Inc.
On Mark Couplings, Inc.
Parts Engrg. Co., Inc.
Pyle-National Co., The
Tru-Connector Corp.
Waltham Horological Corp.
Western International Co.
Winchester Electronics, Inc.

CONNECTORS, PATCH CORDS
See PATCH CORDS, CONNECTORS

CONNECTORS, SKID & SLED

Amphenol Connector Div., Amphenol-Borg Electronics Corp.
Amphenol Western Div., Amphenol-Borg Electronics Corp.
*CANNON ELECTRIC CO.
Capewell Mfg. Co.
Carmac Aviation
Cole Electric Co.
Joy Mfg. Co.
On Mark Couplings, Inc.

CONNECTORS, UMBILICAL

*CANNON ELECTRIC CO.

CONSOLES, AUDIO

Brooks & Perkins, Inc.
Bud Radio Inc.
Du Kane Corp.
*ETS-HOKIN & GALVAN
Fletcher Mfg. Co., Inc., The
Ludwig Honold Mfg. Co.
Kirk & Blum Mfg. Co., The
Litton Industries, Maryland Div.
Livingston Electronic Corp.
*MIRAX CHEMICAL PRODUCTS CORP., ELECTRO-MECHANICAL PRODUCTS DIV.
Motorola Inc., Military Electronics Div.
National Pneumatic Co., Inc., Holtzer-Cabot Divs.
Peer, Inc.
Philco Corp., Government & Industrial Div.
Rimak, Inc.
Telectro Industries Corp.

CONSOLES, LIGHTING CONTROL

Anchor Specialty Mfg. Co. Inc.
*ELECTROSNAP CORP.
*ETS-HOKIN & GALVAN
Fletcher Mfg. Co., Inc., The
Ludwig Honold Mfg. Co.
Kirk & Blum Mfg. Co., The
*MIRAX CHEMICAL PRODUCTS CORP., ELECTRO-MECHANICAL PRODUCTS DIV.
Mullenbach Div.-Electric Machinery Mfg. Co.
Peer, Inc.
Sequoia Wire & Cable Co.-Div.-Mandrel Industries, Inc.
Technical Apparatus Builders
Telectro Industries Corp.

CONTACT CLEANERS
See CLEANERS, CONTACT

CONTACTORS

Arrow-Hart & Hegeman Electric Co., The
Automatic Switch Co.
Cole Electric Co.
Cutler-Hammer Inc.
Electro-Mechnical Products Co.
Electro-Miniatures Corp.
Erwin-Newman Co., The
General Electric Co., Apparatus Sales Div.
Hartman Electrical Mfg. Co., The
E. F. Johnson Co.
J. E. Menaugh Co.
Vap-Air Aeronautical Products Div., Vapor Heating Corp.
Zenith Electric Co.

CONTAINERS

Air Logistics Corp.
American Aluminum Co.
American Car & Foundry, Div.-ACF Industries, Inc.
American Machine & Foundry Co., Government Products Group
Anchor Metal Spinning Co., The
Applied Design Co.
Brooks & Perkins, Inc.
Buffalo Metal Container Corp.
Butler Mfg. Co.
Champion Co., The
Chemold Co.
Chicago Molded Products Corp.
Chrysler Corp., Defense Operations Div.
Colonial Aircraft Corp.
Conco Engrg. Works
Curtiss-Wright Corp., Research Div.
Cutler Metal Products Co.
Dresser Mfg. Div., Dresser Industries, Inc.
FWD Corp.
Farwell Metal Fabricating
Ferris-Mfg. Co., The
Fletcher Mfg. Co., Inc., The
Fruehauf Trailer Co., Military Equipment Div.
General Box Co.
*HARCO CONTAINERS DIV.-HABOR BOAT BUILDING CO.
Hardman Tool & Engrg. Co.
Hicks Corp., The
Ludwig Honold Mfg. Co.
Horkey-Moore Associates
Jeta, Inc.
M. W. Kellogg Co., The
Walter Kidde & Co., Inc., Aviation Div.
Kirk & Blum Mfg. Co., The
H. Koch & Sons
Lyon Van & Storage Co., Aircraft Div.
Mercury Tool & Mfg. Corp.
*MIRAX CHEMICAL PRODUCTS CORP., METAL CONTAINER DIV.
National Tube Div.,-United States Steel Corp.
Oliver Corp., The
Opelika Welding, Machine & Supply Inc.
Ordnance Div.-Food Machinery & Chemical Corp.
Penn-Michigan Mfg. Corp.
Piasecki Aircraft Corp.
Pressed Steel Tank Co.
Pry Welding & Mfg., Inc.
*RHEEM MFG. CO., DEFENSE & TECHNICAL PRODUCTS DIV.
Smith-Morris Corp.
Superior Air Products Co.
Trailmobile Inc.
United States Rubber Co.
Vendorlator Mfg. Co.
Wayne Pump Co., The, Div.-Symington Wayne Corp.

CONTAINERS, SHIPPING
See SHIPPING CONTAINERS

CONTAINERS, STORAGE
See STORAGE CONTAINERS

CONTROL DAMPERS
See DAMPERS, CONTROL

CONTROL, PULSATION
See PULSATION CONTROL

CONTROL SYSTEMS DISCONNECTS
See DISCONNECTS, CONTROL SYSTEMS

CONTROL SYSTEMS, HEAT TRANSFER
See HEAT TRANSFER CONTROL SYSTEMS

CONTROL SYSTEMS, HUMIDITY
See HUMIDITY CONTROL SYSTEMS

CONTROL SYSTEMS, SERVO MECHANISM
See SERVO MECHANISM CONTROL SYSTEMS

CONTROL SYSTEMS, TEMPERATURE
See TEMPERATURE CONTROL SYSTEMS

CONTROL UNITS, BRAKE
See BRAKE CONTROL UNITS

CONTROLLERS, REMOTE SOUND
Motorola Inc., Military Electronics Div.

CONTROLS

a. Audio Recording
b. Automatic Approach
c. Broadcast Input
d. Camera
e. Camera, Remote
f. Capacitance Operated
g. Chemical
h. Combustion
i. Computer
j. Conductivity
k. Counting & Sorting
l. Density
m. Dimension
n. Dynamometer
o. Electronic AC Motor Speed
p. Engine
q. Film Thickness
r. Fire
s. Flame Failure
t. Fluid Conductivity
u. Fluid Flow
v. Fuel
w. Gas
x. Heat Treating
y. Humidity
z. Inspection
a1. Liquid Level
b1. Loop Regulation
c1. Machine Safety
d1. Master
e1. Materials Thickness
f1. Motors & Generators
g1. PH
h1. Photographic Exposure
i1. Photoelectric
j1. Positioning
k1. Power Level
l1. Pressure
m1. Push-Pull
n1. Radio Remote
o1. Reactor, Nuclear
p1. Register
q1. Register Cutter
r1. Remote, Antenna
s1. Servo
t1. Signal
u1. Smoke Density
v1. Sound System
w1. Specific Gravity
x1. Speed
y1. Strain
z1. Tension
a2. Timing
b2. Torque, Electronic

c2. Turbidity
d2. Vacuum
e2. Ventilating Control System
f2. Voltage Regulator
g2. Volume
h2. Volume & Tone
i2. Weight
j2. Welding

***AC ELECTRONICS DIV., GENERAL MOTORS CORP.**, v, x-1.
ACF Industries Inc., w, l-1, s-1, d-2.
A-G-A Div., Elastic Stop Nut Corp. of America, o-2.
Abrams Instrument Corp., d, o, o-2.
Acro Div., Robertshaw-Fulton Controls, i-1.
Acromag Inc., z, o-1, s-1.
Actuation Research Corp., t, u.
Adel Precision Products of California, Div.-General Metals Corp., p, u.
Adept Industries Inc., t-1.
Advanced Products Co., The, o-2.
Aero Gasket Corp., u, v.
Aero Supply Mfg. Inc., p, u, v, w, o-1, l-1, s-1, e-2.
Aerojet-General Corp., p, u, v, j-1, o-1.
Aerolab Development Co., b-1, k-1, s-1, o-2, f-2.
Aeronca Mfg. Corp., h, v, n-1.
Aeronutronic Systems, Inc., Sub.-Ford Motor Co., i, u.
Aerotec Corp., The, u, o-1, l-1.
Air Logistics Corp., n, s.
Aircraft Controls Co., Div., Gorn Electric Co., Inc., o-1, l-1.
***AIRESEARCH MFG. CO., DIV.-THE GARRETT CORP.**, i, o, p, u, v, w, f-1, j-1, l-1, s-1, e-2.
Airpax Electronics Inc. Seminole Div., o, s-1, x-1, o-2.
Allied Research Products, Inc., t, o-1.
Allis-Chalmers, o-1, f-1, j-1.
Alloy Bellows Inc., l-1.
Alto Scientific Co., Inc., o-2.
Amelco, Inc., s-1.
American Agile Corp., e-2.
American Bosch Arma Corp., o, p, u, v, f-1, s-1, x-1.
American Electronics, Inc., f-1, j-1, k-1, s-1, b-2.
American Electronics, Inc., Taller & Cooper Div., d, n, e-2.
American Machine & Foundry Co., Government Products Group, g-2, i-2, k, m, p, b-1 thru e-1, j-1, k-1, m-1, o-1, r-1, s-1, t-1, x-1.
American Machine & Foundry Co., Greenwich, o-1, r-1, s-1, b-2.
American Measurement & Control, Inc., u, j-1, l-1, s-1, x-1.
American Research & Mfg. Corp., z, s-1, f-2.
Amglo Corp., t-1, o-2.
Analogue Controls, Inc., i, j-1, s-1.
Anderson Machine & Tool Co., r.
***ANNIN CO., THE**, u.
Antlab Inc., j-1.
Applied Dynamics Corp., l-1.
Arens Controls, Inc., p, m-1.
***ARNOUX CORP.**
Aro Equipment Corp., w, o-1, l-1, d-2.
Arrow-Hart & Hegeman Electric Co., The, o, o-1, f-1, m-1, e-2.
Assembly Products, Inc., j, f-1, o-2.
Associated Engineers, Inc., u-1.
Astronautics Engrg. Co., n, u, l-1, i-2.
Atlantic Instrument Corp., Sub.-American Electronics, Inc., u, o-1.
Atlas Precision Products, Co., d, e, j-1, r-1, s-1, x-1, o-2.
Automation Dynamics Corp., n-1.
Automation Products, Inc., l, o-1, w-1.
Autotron, Inc., i-1.
Autotronics Inc., x-1.
***AVCO MFG. CORP., CROSLEY DIV.**, b, r, n-1.
Avien, Inc., p, u, o-1.
Axler Associates Inc., g.
B & F. Instruments, Inc., y-1, b-2.
B & H Instrument Co., Inc., s-1.
Babcock Radio Engrg., Inc., n-1.
Barber-Colman Co., j-1, s-1, e-2.
Beaver Precision Products Inc., v, j-1, m-1, o-1.
Beckman Instruments, Inc., Berkeley Div., o, x-1, o-2.
Bell Aircraft Corp., Niagara Frontier Div., s-1.
Bell & Howell Co., d, e, q, b-1, h-1, i-1.
Belock Instrument Corp., d, e, r-1, s-1, x-1.
Bendix Aviation Corp., Eclipse-Pioneer Div., b.
Bendix Aviation Corp., Friez Instrument Div., y, l-1, o-2.
***BENDIX AVIATION CORP., HAMILTON DIV.**, p, u, v, s-1.
Bendix Aviation Corp., Pioneer-Central Div., u, o-1.
Bendix Aviation Corp., York Div., o-1, j-1.
***BENDIX PRODUCTS DIV., BENDIX AVIATION CORP.**, h, p, v, k-1, l-1, s-1, x-1, b-2.
Bendix-Pacific Div., Bendix Aviation Corp., u, s-1, o-2.
Bendix Utica Div., Bendix Aviation Corp., p, u, l-1, s-1, o-2.
Berinco Engrg. Corp., p, x, o-1, o-2.
Blackhawk Mfg. Co., u, j-1, m-1.
Blonder-Tongue Labs., Inc., d, e.
Bogue Electric Mfg., Co., b, i, o, o-1, f-1, j-1, s-1, x-1, f-2.
Bowmar Instrument Corp., h, j, k, r, u, v, o-1, l-1, s-1.
Bowser, Inc., Defense Dept., g, u, v, w.
Brach Mfg. Corp., Div.-General Bronze, o, b-1, o-1, r-1, s-1, x-1, f-2.
Branson Corp., o-2.
Branson Instruments, Inc., m, q, e-1.
Briggs Associates, Inc., j-2.
Bristol Co., The, f thru l, s thru y, o-1, g-1, j-1, k-1, l-1, n-1, s-1, u-1, w-1, x-1, y-1, o-2, c-2, d-2, e-2.
Bristol Motors Div.-Vocaline Co., of America, Inc., o-2.
Brooks Rotameter Co., u, o-1, w-1.
Brown Engrg. Co., Inc., s-1.
Bulow Electric Co., e, o-1, r-1, s-1, o-2.
Burroughs Corp., i, r.
Burton-Rodgers, Inc., i, s-1, t-1, v-1.
CDC Control Services, Inc., g, u, y, j-1, l-1, r-1, s-1, i-2.
CGS Labs., Inc., f-1.
Cameraflex Corp., d, e, h-1.
J. C. Carter Co., The, u, v, o-1, l-1.
Centralab, Div.-Globe-Union, g-1, h-2.
Centronix Inc., a, i, k, i-1.
Chalco Engrg. Corp., u, A-1.
Chandler Evans Corp., h, l, p, u, v, w, j-1, k-1, l-1, r-1, s-1, x-1, o-2.
John Chatillon & Sons, m-1, b-2.
Chicago Aerial Industries, Inc., d, e, i, o, h-1, i-1, r-1, s-1, x-1, o-2.
Cinema Engrg., a, c.
Clarostat Mfg. Co., Inc., g-2, h-2.
Clary Dynamics, g, h, i, l-1, s-1, g-2.
Cleveland Instrument Co., m, z, e-1.
Cleveland Pneumatic Industries, Inc., s-1.
Clifton Precision Products Co., Inc., s-1.
Coils-Electronics, o-1, s-1.
Collins Radio Co., b, c.
Colorado Research Corp., i, j-1.
Columbia Products Co., r-1.
Communications Research Co., n-1.
Components Corp., u, v, w, o-1, s-1, d-2.
Conoflow Corp., g, u, v, w, o-1, l-1, s-1, d-2.
Consolidated Avionics Corp., j, k, u, x-1, o-2.
Consolidated Controls Corp., p, v, w, j-1, l-1, m-1, o-1, s-1, x-1, d-2.
Consolidated Diesel Electric Corp., h, v, w, l-1, o-1, d-2, f-2.
Consolidated Diesel Electric Corp., Western Div., f-1.
Consolidated Electrodynamics Corp., l-1.
Continental Carbon, Div.,-Wirt Co., g-2, h-2.
Control Circuits Inc., i, j, k, s-1, w-1.
Control Engrg. Co., Div. Jervis B. Webb Co., n, o, p, d-1, o-2.
Controls Co. of America, s, u, v, w, z, x-1.
Cornelius Co., The, Aero Div., l-1, d-2.
Cornell Deep Drawing Co., Div.-Lanes Industries Corp., z, k-1, c-2.
Cosa Corp., n.
Cramer Controls Corp., o-2.
Curtiss-Wright Corp., Electronics Div., l, o-1, f-2.
Curtiss-Wright Corp., Propeller Div., j-1, s-1.
Curtiss-Wright Corp., Research Div., o-1.
Curtiss-Wright Corp., Wright Aeronautical Div., h, p, k-1.
Curtiss-Wright Electronics Div., IMI Branch, l-1.
Cutler-Hammer Inc., o, o-1, f-1, j-1, l-1, d-2, e-2, f-2.
DBM Research Corp., d, e, k, i-1.
Dale Products, Inc., a.
Dalmotor Div., Yuba Consolidated Industries, Inc., i, o, b-1, j-1, s-1, x-1.
Data Instruments Div.-Telecomputing Corp., i-1.
Datex Corp., j-1.
Datran Electronics, Div.-Mid-Continent Mfg., Inc., y-1.
Daven Co., The, a, c, k-1, v-1, h-2.
Davenport Mfg. Co., i-1, f-2.
Daystrom Pacific Div.-Daystrom, Inc., i, j-1, l-1, s-1.
Dayton Aviation Radio & Equipment Corp., b, b-1, j-1, m-1, r-1, s-1.
Daytronic Corp., m, e-1, j-1, y-1, z-1.
Delsen Corp., f, e-1.
Denison Engrg. Div., American Brake Shoe Co., l-1, g-2.
Deringer Metallurgical Corp., j-2.
Destron Co., o-2.
Detronic Industries, i-1, s-1, j-2.
Dial Products Co., z-1.
Di-An Controls, Inc., i, k, o-2.
J. W. Dice Co., m, q, z, e-1.
Henry G. Dietz Co., Inc., u, o-1, l-1, o-2, d-2, e-2.
W. C. Dillon & Co., Inc., i-2.
Donner Scientific Co., i, j-1, o-1.
Dresser Industries, Inc., i, s-1, f-2.
M. Ducommun Co., o-2.
Dynamic Controls Corp., u, o-1, l-1, o-2.
Eastern Industries Inc., u, y, k-1, s-1.
Eastern Jewel Corp., g-2, h-2.
Edgerton, Germeshausen & Grier, Inc., d, e, h-1, n-1, o-1, o-2.
Thomas A. Edison Ind. Instrument Div.-McGraw-Edison Co., r, s, s-1, o-2.
Electric Machinery Mfg. Co., o, o-1.
Electric Regulator Corp., o, p, f-1, k-1, s-1, x-1, f-2.
Electro Precision Corp., s-1, f-2.
Electro Products Laboratories, Inc., k, o-1, j-1, x-1, b-2.
***ELECTROSNAP CORP.**, r, o-1, j-1, m-1.
Electro-Mechanical Products Co., r, d-1, f-1, r-1, s-1, f-2.
Electronic Applications, Inc., w.
Electronic Communications, Inc., n-1, r-1, s-1.
Electronic Control Corp., h, j, k, q, r, x, o-1, o-1, i-1, j-1, k-1, u-1, o-2, b-2.
Electronic Engrg. Co. of California, d, e, i, k, o-2.
Electronic Specialty Co., o-2.
Electron-Radar Products, s, y, i-1.
Elgin Micronics, West Coast Div.,-Elgin National Watch Co., d.
Emerson Electric Mfg. Co., The, Electronics & Avionics Div., s-1.
Epic, Inc., y.
Erie Resistor Corp., k, o-2.
***ETS-HOKIN & GALVAN**, a, b, c, o, p, r thru u, y, o-1, b-1, d-1, f-1, j-1, k-1, m-1, r-1, s-1, u-1, v-1, c-2, e-2 thru h-2.
Exact Engrg. & Mfg., Inc., i, a.
Fae Instrument Corp., s-1.
Fairchild Astrionics Div., Fairchild Engine & Airplane Corp., p, j-1, s-1, x-1.
Fairfield Engrg. Corp., a, f-1, h-1 thru k-1, s-1, b-2, f-2, j-2.
Farmer Electric Products Co., Inc., h-1, x-1.
J. W. Fecker, Inc., d, e, s-1.
Federal Mfg. & Engrg. Corp., h.
Federal Products Corp., m, z, j-1.
Federal Tool Engrg. Co., j-2.
Feedback Controls, Inc., i, r, o-1, r-1, s-1.
Fidelity Amplifier Co., h, s.
Fidelity Instrument Corp., o, f-1, f-2.
Fischer & Porter Co., u, v, l-1, w-1.
Fisher Governor Co., w, o-1, l-1.
Flight Refueling, Inc., u, o-1, l-1, n-1, g-2.
Ford Instrument Co., Div.-Sperry Rand Corp., b, i, u, v, o-1, r-1, s-1.
Furnas Electric Co., g-1, d-1, f-1, l-1.
Galland-Henning Nopak Div., x-1.
Gardner Laboratory, Inc., q, y, e-1, g-1.
General Communication Co., l, w-1.
General Devices, Inc., o-2.
General Electric Co., Apparatus Sales Div., n thru q, u, w, o-1, d-1, e-1, f-1, i-1 thru l-1, o-1, p-1, s-1, u-1, x-1, y-1, z-1, o-2, c-2, d-2, f-2, j-2.
General Electric Co., Computer Dept., i.
General Electric Co., Missile & Space Vehicle Dept., e-1.
General Electric Co., X-Ray Dept., d.
General Electro-Mechanical Corp., s-1, z-1.
General Magnetics, Inc., f-2.
General Precision Lab. Inc., d, e.
G. M. Giannini & Co., Inc., i, j-1, l-1, s-1, f-2, g-2.
Giannini Plasmadyne Corp., d-2.
Gilmore Industries, Inc., i-2.
Good Electronic Corp., z, y-1.
Goodyear Aircraft Corp., r-1.
Claud S. Gordon Co., w.
Gordon Enterprises, d, e, h-1, o-2.
Graflex Inc., d, a.
Green Rectifier Co., x-1, d-2, f-2.
Grimes Mfg., Co., d-1.
Guided Missile Div.-De Havilland Aircraft of Canada, Ltd., f-1, s-1, f-2.
Gulton Industries, Inc., g, u, z.
Hagan Chemicals & Controls, Inc., g, h, j, l, u, v, w, y, o-1, g-1, l-1, w-1, x-1, g-2.
Haledy Electronics Co., u, o-1, i-1, d-2.
Hamilton Standard, Div.-United Aircraft Corp., i, m, o, p, v, y, b-1, d-1, i-1, j-1, k-1, m-1, o-1, s-1, x-1 thru b-2.
Hamilton Watch Co.-Industrial Div., t-1, o-2.
Hammarlund Mfg. Co., Inc., a, e, j, k, r, s, t, u, o-1, i-1, n-1, l-1, t-1.
Hammel-Dahl Div.-General Controls Co., u, o-1.
Hannifin Co., Div.-Parker-Hannifin Corp., u, o-1, l-1, m-1, x-1.
Hanson-Gorrill-Brian, Inc., o, i-1, s-1, x-1.
Paul Hardeman, Inc., t, u, l-1, o-1.
***A. W. HAYDON CO., THE**, d, i, k, p, f-1, o-2.
Helipot Div.-Beckman Instruments Inc., s-1.
Herlo Engrg. Corp.,j-2.
High Vacuum Equipment Corp., x, o-2.
E. Vernon Hill & Co., f-2.
Hobbs Mfg. Co., x-1.
Hoffman Electronics Corp., Semiconductor Div., r, s, i-1, u-1, f-2.
Holley Carburetor Co., v.
Hoover Electric Co., e, f, o, f-1, j-1, k-1, o-1, r-1, s-1, x-1, o-2, b-2, e-2, f-2.
Hufford Corp., The, c-1, j-1.
Hughes Tool Co., Aircraft Div., v.
Hughey & Phillips, Inc., i-1.
Hull Corp., d-2.
Walter J. Hyatt Co., The, u, v, r-1.
Hycon Mfg. Co., d, e, h-1, j-1.
Hydra-Power Corp., t thru w, l-1, s-1.
***HYDRO-AIRE CO., DIV.-CRANE CO.**, v, w.
Hydromatics, Inc., u, j-1, l-1.
Imperial Brass Mfg. Co., The, u, m-1.
Industrial Control Co., k, o, f-1, j-1, s-1.
Industrial Engrg. Corp., k-1.
Industrial Instruments Inc., j, t.
Industrial Timer Corp., o-2.
Ingraham Co., The, o-2.
Instrument Development Labs., Inc., i-1, u-1.
Instrumentation Div.-Ampex Corp., a, i.
Instruments Corp., The, y.
Instruments Div.-Philips Electronics, Inc., n-1.
International Register Co., o-2.
Interstate Engrg. Corp., t.
ITT-Kellogg, d, e, t-1, v-1, o-2.
JEM Electronics Corp., i-1.
Jack & Heintz, Inc., f-1, f-2.
Jansky & Bailey, Inc., r-1.
Javex Electronics, g-2.
Jeta, Inc., f-1.
Jones & Lamson Machine Co., j-1.
Jordan Co., Inc., The, j-1, o-1, s-1, x-1, z-1.
Kahn & Co., Inc., x-1.

Kanarr Corp., j-2.
***KEARFOTT CO., INC.**, i, o, f-1, j-1, r-1, s-1.
Keithley Instruments, Inc., o-1.
Kelsey-Hayes Co., s-1.
Ketay Dept., Norden Div., United Aircraft Corp., s-1.
Walter Kidde & Co., Inc., Aviation Div., s-1.
Kilgen Aircraft Div., i, d-1, v-1.
Kingston Electronics-Div.-Kingston Industries Inc., f-1.
Kinney Mfg. Div., The New York Air Brake Co., d-2.
Koehler Aircraft Products Co., u, v, w, o-1.
Korda Industries, h, p, u, v, x-1.
Harold Kruger Instruments, g, g-1, c-2.
Land-Air Inc., d, e, i, n, u, v, z, o-1, j-1, n-1, s-1, o-2.
Lane Electronics Mfg. Corp., n-1.
Leach Corp., o, f-1, o-2, f-2.
Lear, Inc., b, p, j-1, n-1, o-1, s-1, z-1, b-2.
Lear, Inc., Grand Rapids Div., b, o, f-1, j-1, r-1, s-1.
Lear Inc., Lear-Romec Div., s-1.
Leeds & Northrup Co., g, h, j, o, t, x, y, o-1, g-1, o-1, w-1, x-1, i-2.
Leland Airborne Products, Div.-American Machine & Foundry Co., f-1, f-2.
***WALLACE O. LEONARD, INC.**, i, o-1, l-1, s-1.
Leslie Co., u, v, l-1, d-2.
Librascope Inc., i.
Liquidometer Corp., The, o-1.
Lundy Mfg. Corp., c, o, f-1, b-2, o-2.
Magnaflux Corp., q, z, o-1.
Magnetic Instrument Co. Inc., f, l, v, o-1, o-1, s-1, y-1.
Magnetico, Inc., s-1.
Magnetrol, Inc., u, o-1.
Magtrol, Inc., n, j-1, s-1, b-2.
Maico Electronics, Inc., j-1.
P. R. Mallory & Co. Inc., o-2, g-2, h-2.
Marquardt Aircraft Co., h, p, v, j-1, k-1, o-1, x-1.
Mason-Neilan, u, o-1, l-1, w-1, d-2.
Matheson Co., Inc., The, w, l-1.
W. L. Maxson Corp., The, u, o-1, r-1.
Meriam Instrument Co., u.
Merix Chemical Co., g.
Metals & Controls Corp., Spencer Div., m-1.
Micro Gee Products, Inc., s-1.
Midwestern Instruments, Inc., a.
Milgo Electronic Corp., i, s-1.
Minitron Corp., f-2.
Minneapolis-Honeywell Regulator Co., Aeronautical Div., b, f, i, p, s, o-1, j-1, s-1.
Minneapolis-Honeywell Regulator Co., Boston Div., s-1.
Minneapolis-Honeywell Regulator Co., Industrial Div., j, l, s thru v, x, y, o-1, g-1, j-1, l-1, o-1, s-1, w thru z-1, o-2, d-2.
Minneapolis-Honeywell Regulator Co., Industrial Product Group, i, l, u thru y, o-1, b-1, g-1, j-1, k-1, l-1, o-1, s-1, u-1, w-1 thru z-1, d-2.
Minneapolis-Honeywell Regulator Co., Ordnance Div., y, u-1, b-2, f-2.
Miratel, Inc., a.
Missouri Research Labs., Inc., s-1.
J. J. Monaghan Co., Inc., l-1.
Monogram Precision Industries, r-1.
Moore Associates, Inc., m-1.
Moran Instrument Corp., s-1.
Morse Instrument Co., The, p, h-1, i-1, m-1, r-1, s-1.
Motorola Inc., Military Electronics Div., b, i, j-1, n-1, r-1, s-1, v-1.
Heinz Mueller Eng. Co. Inc., o, f-1.
Mullenbach Div. Electric Machinery Mfg. Co., c-1, j-2.
NRC Equipment Corp., d-2.
George L. Nankervis Co., m, n, o, t, u, s-1, w-1.
National Instrument Laboratories, Inc., u.
National Pneumatic Co., Inc., Holtzer-Cabot Divs., s-1, g-2, h-2.
Natl. Water Lift Co., Div.-Cleveland Pneumatic Industries, Inc., p, u, s-1.
Navigation Computer Corp., i.
Nelson Labs., Inc., k.
Networks Electronic Corp., o, b-1, f-1, m-1, s-1, f-2.
New England Scientific Instruments Co., y, o-1, j-1, k-1, l-1, s-1, x-1.
Newark Controls Co., l, w, o-1, l-1, d-2.
Newton Co., The, i, s-1.
North Atlantic Industries, Inc., s-1.
North Electric Co., e, i, k, k-1, v-1.
Northeastern Engrg. Inc., f-1.
Northrop Corp., s-1.
Norwood Controls Unit Detroit Controls Div., g, u, o-1, j-1, l-1, o-1.
Nuclear Products-Erco Div.-ACF Industries, Inc., i, o-1.
Paul Nurches Co., o-2.
OPW-Jordan, o-1, l-1.
Ohio Semiconductors, Inc., i, k-1, s-1, f-2.
Ohmart Corp., The, l, o-1, w-1.
Oil-Dyne, Inc., s.
Otis Elevator Co., Electronic Div., s-1.
Oxygen Equipment & Service Co.
Ozone Metal Products Corp., r-1, u-1.
Pacific Scientific Co., x, z-1.
***PACKARD-BELL ELECTRONICS CORP.**, i.
Papesch & Kolstad, Inc., x.
Paragon Electric Co., o-2.
Parts Engrg. Co., Inc., u, v, w.
Peer, Inc., j-2.
Peschel Electronics, Inc., z.
Philco Corp., Government & Industrial Div., b thru e, i, r, n-1, s-1, t-1, v-1, f-2, g-2, h-2.
Photobell Co., Inc., b, f, k, l, m, y, z, o-1, b-1, c-1, i-1, j-1, p-1, q-1, u-1, x-1, b-2, c-2.
Photo-Crystals, Inc., h, z, y, i-1.
Photomation, Inc., h, a, u, o-1, b-1, c-1, i-1, j-1, c-2.
Photovolt Corp., l, g-1, h-1.
Pioneer Industries Div., Almar-York Co. Inc., z, j-2.
Pneu-Hydro Valve Corp., u, v, w, o-1, l-1.
Potter Aeronautical Corp., u, v, w.
Power Designs Inc., f-2.
Power Supplies Inc., b-1, f-1, f-2.
Power-Tronic Systems Inc., b, i, k, o, u, x, o-1, b-1, s-1, b-2, f-2, g-2, h-2.
Precision Thermometer & Instrument Co., l, w-1.
Process & Instruments, g-1, d-2.
Radiation, Inc.
Radiation Instrument Development Lab., Inc., o-1.
Ramo-Wooldridge Div., Thompson Ramo Wooldridge of Calif.
Raymond Engrg. Lab., Inc., r-1, o-2.
Raytheon Mfg. Co., o-2, j-2.
Reaction Motors Div., Thiokol Chem. Corp., p, u, v, j-1.
Redmond Co., Inc., f-1.
Reeves Instrument Corp., s-1.
Reinhold Engrg. & Plastics Co., v, w, j-1, r-1.
Republic Aviation Corp., s-1.
Research Appliance Co., d-2.
Research Controls, g, h, u, v, j-1, l-1.
Revere Corp. of America, u, o-1.
M. H. Rhodes, Inc., o-2.
Rinco, Inc., i.
Robot Industries Inc., b, p, i-1, m-1, r-1.
Ronan & Kunzl, Inc., m-1.
Ronson Hydraulic Units Corp., u, l-1, s-1.
Milton Roy Co., g, o-1, g-1.
Royal Industries, Inc., d, j-1, m-1, r-1, s-1.
Ryan Aeronautical Co., p, s-1.
Rytron Co., Inc., o, f-1, f-2.
Safety Electrical Equipment Corp., f-1.
Sangamo Electric Co., o-2.
Sargent Engrg. Corp., p, u, l-1, o-1, s-1, g-2.
Scaico Controls, Inc., r, s, o-1, l-1, d-2.
Sciaky Brothers, Inc., z-1, i-2.
Scientific Instrument Co., g, y, l-1.
Scientific-Atlanta, Inc., j-1.
H. H. Scott, Inc., v-1.
Seiscor Mfg. Co., n-1.
Sequoia Wire & Cable Co., Div.-Mandrel Industries, Inc., o-2, f-2.
Servomechanisms, Inc., h, i, l, p, r, u, v, o-1, l-1, s-1, w-1, x-1.
Servomechanisms, Inc., Mechatrol Div., o-1, r-1, w-1.
Servwell Products Co., m-1.
Sheffield Corp., The, Sub.-Bendix Aviation Corp., m, q, z, o-1.
Simmonds Aerocessories, Inc., u, v, w, o-1, m-1.
Singer Mfg. Co., The, Military Products Div., s-1, o-2.
Sioux Oil Co., v.
Skiatron Electronics & Television Corp., i.
A. O. Smith Corp., t, u.
Soroban Engrg., Inc., i.
Southwest Products Co., n, p, v, j-1, m-1, z-1.
Southwestern Industrial Electronics Co., g, h, i, k, p, s thru x, o-1 thru d-1, g-1, l-1, m-1, s-1, t-1, w-1 thru z-1, o-2, b-2.
Space Corp., o-1.
Specialties, Inc., d, e, h-1, l-1, s-1.
Specialty Engrg. & Electronics Co., w.
Spectrol Electronics Corp., j-1, s-1.
Sperry Piedmont Co. – Div.-Sperry Rand Corp., p, j-1.
Standard Controls, Inc., u, l-1.
Standard-Thomson Corp., Clifford Mfg. Co. Div., o-2.
Stanley Aviation Corp., o-1.
Sterling Precision Corp., Instrument Div., i, i-1.
F. W. Stewart Corp., m-1, n-1.
A. U. Stone & Co., Inc., u, v, w.
Strand Engrg. Co., j, k.
Stratos, Div.-Fairchild Engine & Airplane Corp., v, w.
Summers Gyroscope Co., s-1.
Sun Electric Corp., Aeronautical Div., j-1, s-1.
Superior Electric Co., The, j-1, f-2.
Swartwout Co., The, g, u, o-1, l-1, s-1.
Systron Corp., k, u, x-1, o-2.
Tactair Valve Div.-Aircraft Products Co., u.
Taft-Peirce Mfg. Co., The, m, z.
Talley Corp., The, o, f-1, j-1, f-2.
Tapco Group, Thompson-Ramo-Wooldridge Inc., e, o, p, v, w, o-1, f-1, j-1, l-1, o-1, r-1, s-1, x-1.
Taylor Winfield Corp., o-2, j-2.
Technical Apparatus Builders, o, f-2.
Telechrome Mfg. Corp., d, e, k, m, q, y, z, o-1, i-1, n-1, y-1 thru b-2, i-2.
Telectro Industries Corp., a, b, f, i, d-1, j-1, n-1, r-1, v-1, f-2, g-2.
Teleflex Inc., p, v, m-1, z-1.
Tel-Instrument Electronics Corp., f-2.
Temperature Engrg. Corp., x, y, d-2.
Tempo Instrument Inc., o-2.
Thiokol Chemical Corp., b.
Thomas Electronics, Inc., q.
Thompson-Ramo-Wooldridge Products Co., The, i.
Transco Products, Inc., r-1.
George Ulanet Co., o-2.
United Aircraft Products, Inc., p, t, u, v, y, l-1, o-2.
United Control Corp., e, o-1, j-1, l-1, o-1, o-2.
United Electric Controls Co., p, r, v thru y, o-1, c-1, f-1, j-1, k-1, l-1, d-2, o-2.
United Electrodynamics, Inc., f-2.
U. S. Science Corp., Div.-Topp Industries, Inc., d, e, k-1, j-1, s-1, o-2, o-2.
United Transformer Co., f-2.
Universal Dynamics Corp., y.
University Loudspeakers, Inc., h-2.
Vacuum Tube Products, Div.-Hughes Aircraft Co. o-2, d-2, j-2.
Variety Aircraft Corp., m-1.
Varo Mfg. Co., Inc., e, b-1, f-1, j-1, m-1, s-1, x-1, f-2.
Veeco Vacuum Corp., d-2.
Vemaline Products Co., o-2.
Vickers Inc., Div.-Sperry Rand, s-1.
Victory Engrg. Corp., f, t, o-1.
Wacline, Inc., e, x-1.
Waldorf Electronics. Div.-F.C. Huyck & Sons, i, j-1, s-1.
Walkirt Co., k.
Waltham Engrg. Corp., o-2, d-2.
Waltham Precision Instrument Co., o-2.
Watertown Div., The New York Air Brake Co., u, l-1, s-1.
Waugh Engrg. Co., u, s-1, o-2.
Webcor, Inc., Government Div., a, i, k, n-1, r-1, o-2, b-2.
Weighing & Control Components, Inc., y, s-1, i-2.
West Instrument Corp., x.
Western Arc Welding, Inc., p, m-1, b-2.
Western Design Div.-U.S. Industries, Inc.; Santa Barbara Div., e, o-2, f-2.
Westinghouse Air Brake Co., Industrial Products Div., k-1.
Westinghouse Electric Corp., e, f-1, o-1, s-1, x-1, o-2, f-2, i-2.
Weston Hydraulics Ltd.-Sub., Borg-Warner Corp., l-1, s-1.
Weston Instruments, Div.-Daystrom, Inc., q, y, h-1, i-1, l-1.
Westronics Inc., o-1, s-1, y-1.
Wilcolator Co., The, y.
G. C. Wilson & Co., i-1, o-2.
Winder Aircraft Corp., of Florida, f-2.
Winzen Research Inc., n-1.
Worner Electronic Devices, g, j, k, r, y, z, o-1, b-1, h-1, r-1, u-1, w-1, o-2, c-2.
Zenith Radio Corp., m-1.
Zoomar Inc., d, e, h-1.

CONTROLS, ALARM SYSTEM

American Electronics, Inc., Taller & Cooper Div.
American Machine & Foundry Co., Government Products Group
American Research & Mfg. Corp.
Assembly Products, Inc.
Barker Sales Co.
Bristol Co., The
Centronix Inc.
Cornell Deep Drawing Co., Div.-Lanes Industries Corp.
Curtiss-Wright Corp., Electronics Div.
Thomas A. Edison Ind. Instrument Div.-McGraw-Edison Co.
Electronic Control Corp.
***ETS-HOKIN & GALVAN**
Federal Mfg. & Engrg. Corp.
Fenwal Inc.
Fischer & Porter Co.
Globe Automatic Sprinkler Div., The Fyr-Fyter Co.
Hamilton Standard, Div.-United Aircraft Corp.
Hammarlund Mfg., Co., Inc.
Paul Hardeman, Inc.
Leeds & Northrup Co.
Minneapolis-Honeywell Regulator Co., Industrial Product Group
***MIRAX CHEMICAL PRODUCTS CORP., ELECTRO-MECHANICAL PRODUCTS DIV.**
Missouri Research Labs., Inc.
Motorola Inc., Military Electronics Div.
North Electric Co.
Philco Corp., Government & Industrial Div.
Photobell Co., Inc.
Scaico Controls, Inc.
Scam Instrument Corp., The
Scientific Instrument Co.
Simmonds Aerocessories, Inc.
Southwestern Industrial Electronics Co.
Specialty Engrg. & Electronics Co.
Sun Electric Corp., Aeronautical Div.
Technical Apparatus Builders
Thermo Electric Co., Inc.
Thompson-Ramo-Wooldridge Products Co., The
United Control Corp.
United Electric Controls Co.

CONTROLS, GENERATOR

a. Illumination
b. Mechanical Overload
c. Mechanical Switch
d. Motor & Generator Communications
e. Motor & Generator, Industrial
f. Oxygen
g. X-ray

Air Products, Inc., f.
***AIRESEARCH MFG. CO., DIV.-THE GARRETT CORP.**, f.
Allis-Chalmers, e.
American Aeroports, b.
American Bosch Arma Corp.

American Electronics, Inc., a.
Aro Equipment Corp., f.
Atlas Precision Products, Co., b, c.
Barker Sales Co., d.
Bendix Aviation Corp., Red Bank Div.
Bogue Electric Mfg., Co.
Bracke-Seib X-ray Co., Inc., g.
Bristol Co., The, f.
Cole-Hersee Co., c.
Consolidated Diesel Electric Corp., a, d, e.
Consolidated Diesel Electric Corp., Western Div., a.
Cornell Deep Drawing Co., Div.-Lanes Industries Corp., c.
Cutler-Hammer Inc., a.
Electric Machinery Mfg., Co., a.
Electric Regulator Corp.
Electro-Mechanical Products Co., b, c.
Electronic Control Corp., g.
***ETS-HOKIN & GALVAN, a thru e.**
FXR, Inc., g.
General Electric Co., Apparatus Sales Div., a, d, e, g.
General Electric Co., X-ray Dept., g.
Guided Missile Div.-De Havilland Aircraft of Canada, Ltd.
Hoover Electric Co., b, c, d, e.
Instruments Div.-Philips Electronics, Inc., g.
Jack & Heintz, Inc.
Jeta, Inc., e.
Kilgen Aircraft Div., a c.
Leach Corp., a.
Leland Airborne Products, Div.-American Machine & Foundry Co.
Motoresearch Co.
Heinz Mueller Eng. Co. Inc., d, e.
Mullenbach Div.-Electric Machinery Mfg. Co., a.
National Pneumatic Co., Inc., Holtzer-Cabot Divs., d, e.
Overload Control Co., b.
Oxygen Equipment & Service Co., f.
PIC Design Corp., Sub.-Benrus Watch Co., Inc., b.
Parts Engrg. Co., Inc., f.
Picker X-ray Corp., g.
Power Supplies Inc., d, e.
Robot Industries Inc., c.
Safety Electrical Equipment Corp., a.
Smith-Morris Corp., g.
Talley Corp., The, b thru e.
Tapco Group, Thompson Ramo Wooldridge Inc.
Technical Apparatus Builders, a.
Telectro Industries Corp., b.
United Electric Controls Co., b, e.
Varo Mfg. Co., Inc., d, e.
Wacline, Inc., d, e.
Westinghouse Electric Corp., e, g.
Winder Aircraft Corp. of Florida, b, c.
Winzen Research Inc., f.

CONTROLS, OXYGEN SYSTEMS &
See OXYGEN SYSTEMS & CONTROLS

CONTROLS & STARTING SYSTEMS
See STARTING SYSTEMS & CONTROLS

CONTROLS, SURFACE FINISH

American Research & Mfg. Corp.
Brush Instruments, Div.-Clevite Corp.
Cleveland Instrument Co.
***ENGIS EQUIPMENT CO.**
General Electric Co., Apparatus Sales Div.
Micrometrical Fg. Co.
Sel-Rex Corp.

CONTROLS & SYSTEMS, PNEUMATIC
See PNEUMATIC CONTROLS & SYSTEMS

CONTROLS, VIBRATION
See VIBRATION CONTROLS

CONVERTERS

a. AC-DC
b. Analog Digital
c. DC-AC
d. Electric
e. Field Sequential
f. FM Communications
g. Frequency, Measurement & Test
h. Frequency, Power Supplies
i. Liquid Oxygen
j. Microwave
k. RF
l. Rotary
m. Voltage
n. Waveform

ACF Industries Inc., b.
Accurate Instrument Co., c, h.
Adler Electronics, Inc., g.
Aerolab Development Co., a, c, d, f, g, h, m.
Aeronca Mfg. Corp., Baltimore Facility, b.
Airborne Accessories Corp., a, c.
Aircom Inc., j.
Aircom Inc. of New Jersey, j.
***AIRESEARCH MFG. CO., DIV.-THE GARRETT CORP., a, i.**
Airflyte Electronics Co., b.
Airpax Electronics Inc. Seminole Div., c, g, h.
Allis-Chalmers, a, c.
Alto Scientific Co., Inc., a, c.
Amelco, Inc., a, c, d, f, h, k.
Amerac Inc., j.
American Electronics, Inc., a, c, h, l.
American Electronics, Inc., Electric Machinery & Equipment Div., a, c, h, m.
American Electronics, Inc., Taller & Cooper Div., b.
American Missile Products Co., Inc., a, b, c.
American Research & Mfg. Corp., a, c, d, h.
Analogue Controls, Inc., b.
Andromeda, Inc., b.
Applied Science Corp. of Princeton, b.
***ARNOUX CORP., a, c, d, h, m.**
Aro Equipment Corp., i.
Atlas Precision Products, Co., b.
Austin Co., The, Special Devices Div., b.
B & H Instrument Co., Inc., b.
Baldwin Piano Co., The, Industrial Products Div., b.
Ballantine Labs., Inc., c.
Beckman Instruments, Inc., Berkeley Div., b, g, j.
Beckman-Systems Div., a, b, c.
Bendix Aviation Corp., Eclipse-Pioneer Div., b.
Bendix Aviation Corp., Pioneer-Central Div., i.
Bendix Aviation Corp., Red Bank Div., a, c, h, l, m.
Bendix Aviation Corp., York Div., j.
***BENDIX PRODUCTS DIV., BENDIX AVIATION CORP., g.**
Bogue Electric Mfg., Co., a, c, d, h, l.
Briggs Associates, Inc., b.
Bristol Co., The, a, b, c.
Brown Engrg, Co., Inc., c.
Burroughs Corp., a.
Carruthers & Fernandez, Inc., a, c, h.
Centronix Inc., a, b.
Chalco Engrg. Corp., a, c.
Christie Electric Corp., a.
Clifton Precision Products Co., Inc., b.
Coils-Electronics, a.
Coleman Engrg. Co., Inc., b.
G. L. Collins Corp., c.
Colorado Research Corp., b.
Computer Engrg. Associates, Inc., a, c.
Consolidated Avionics Corp., a, b, c, m.
Consolidated Controls Corp., b.
Consolidated Diesel Electric Corp., a thru d, l, m.
Consolidated Diesel Electric Corp., Western Div., a, c, h.
Consolidated Electrodynamics Corp., b.
Cornell-Dubilier Electric Corp., a, c.
Crescent Engrg. & Research Co., a.
Crosby Laboratories, Inc., f.
Cubic Corp., a, b, c.
Curtiss-Wright Electronics Div., IMI Branch, b.
D. & R. Ltd., l.
Dalmotor Div., Yuba Consolidated Industries, Inc., a, c, d, l, m.
Data Instruments Div.-Telecomputing Corp., b.
Datex Corp., b.
Daven Co., The, a, c, h, k.
Davenport Mfg. Co., a, b, c, m.
Demornay-Bonardi, j.
Di-An Controls, Inc., b.
Divco-Wayne Electronics, Div.-Divco-Wayne Corp., b.
Dorsett Labs., Inc., c.
Dresser Electric Co., a.
Dresser Industries, Inc., a thru d, h, m.
Dychro Corp., b.
Dymec Inc., b.
Dynamic Devices, Inc., i.
Eicor Div.-Scranton, c, l.
Electro Development Corp.
Electro Instruments, Inc., a, b, g.
Electro Products Laboratories, Inc., a, c.
Electro-Mec Lab. Inc., b
Electro-Mechanical Research, Inc., a, f.
Electronic Assembly Co., Inc., a, c, m.
Electronic Communications, Inc., b, f, j, k.
Electronic Research Associates, Inc., a, c, h.
Electronic Specialty Co., a, c.
Emerson Electric Mfg. Co., The, Electronics & Avionics Div., b.
Engineered Magnetics, Div.-Gulton Industries, Inc., a.
Entron, Inc., g, k.
Era Electric Corp., c.
FXR, Inc., j, k, n.
Ferrotran Electronics Co., Inc., a, c, k, m.
Fischer & Porter Co., b.
Ford Instrument Co., Div.-Sperry Rand Corps., b.
Freed Transformer Co. Inc., a, c.
General Devices, Inc., l.
General Electric Co., Apparatus Sales Div., a, c, d, h, k, l, m.
General Magnetics, Inc., c.
General Photo Products Co., Inc., a.
General Precision Lab. Inc., b.
Georator Corp., a, d, g, h, l.
Geotronic Labs. Inc., c, f.
Giannini Plasmadyne Corp., a.
Gordon Enterprises, a, c, d.
Green Rectifier Co., a, d, m.
Guided Missile Div.-De Havilland Aircraft of Canada, Ltd., a, c, h.
Gulton Industries, Inc., a, b.
Hallamore Electronics Co., c.
Hamilton Standard, Div.-United Aircraft Corp., a, c, d, h, m.
Hertner Electric Co., The, a, c, d, h, l.
Hofman Labs., Inc., i.
Hoover Electric Co., a thru e, g, h, l, m.
Walter J. Hyatt Co., The, j.
ITT Labs., b, j.
Industrial Test Equipment Co., h.
Instrument Development Labs., Inc., b, e.
International Research Associates, b.
Jack & Heintz, Inc., a, c, d, m.
Jordan Electronics, Div.-Victoreen Instrument Co., a, c.
Julie Research Labs., Inc., b.
Kaiser Aircraft & Electronics, Div.-Kaiser Industries Corp., c.
***KEARFOTT CO., INC., b, j, l.**
Kin Tel Div.-Cohu Electronics, Inc., b.
Land-Air Inc., a thru g.
La Pointe Industries Inc., j, k.
La Roe Instruments, Inc., a, c, d, h, m.
Leach Corp., a, c, d, l, m.
Lear, Inc., a, c, k.
Leland Airborne Products, Div.-American Machine & Foundry Co., a, c, d, h, l, m.
Librascope Inc., b.
Lieco, Inc., i, j.
Litton Industries, Inc., b.
Lundy Mfg. Corp., a, c.
Mac Leod & Hanopol, Inc., b.
Magnavox Co., The, c.
Magnetic Controls Co., a, c, h, m.
Magnetic Instrument Co. Inc., c.
Magnetic Research Corp.
Magnetica, Inc., c.
Maico Electronics, Inc., b, c.
Manson Labs., Inc., k.
Meridian Metalcraft, Inc., j, k.
Micrometrical Mfg. Co., g.
Milgo Electronic Corp., b.
Minneapolis-Honeywell Regulator Co., Aeronautical Div., b.
Minneapolis-Honeywell Regulator Co., Boxton Div., c.
Minneapolis-Honeywell Regulator Co., Industrial Div., c.
Minneapolis-Honeywell Regulator Co., Industrial Product Group, b, c.
Minneapolis-Honeywell Regulator Co., Ordnance Div., a, b, c.
Model Rectifier Corp., a, m.
***MOTOR GENERATOR CORP., a, c.**
Motorola Inc., Military Electronics Div., b, f, j, k.
Heinz Mueller Eng. Co. Inc., a, c, l.
Multi-Amp Corp., a.
NYT Electronics, Inc., a, c, m.
George L. Nankervis Co., b.
National Pneumatic Co., Inc., Holtzer-Cabot Divs., a, b, d thru h, l.
Networks Electronic Corp., a, c, d.
Newton Co., The, b.
Non-Linear Systems, Inc., a, b.
Ernest Norrman Laboratories, g, h.
North Atlantic Industries, Inc., a.
Northeast Electronics Corp., c.
Northrop Corp., a.
Northrop Corp., The, Nortronics Div., b.
Norwood Controls Unit Detroit Controls Div., b.
Ohio Semiconductors, Inc., a, c.
Pacific Magnetic Corp.
***PACKARD-BELL ELECTRONICS CORP., b, m.**
Palo Alto Engrg. Co., a, c.
Ralph M. Parsons Co., The, Electronics Div., c.
Patterson, Moos Div. - Universal Winding Co., Inc., a.
Perkin Engrg. Corp., a, c, d, m, n.
Perry Plastics, Inc., h.
Pesco Products Div.-Borg-Warner Corp., a, c.
Philco Corp., Government & Industrial Div., a, b, c, f, g, h, j, k.
Potter Aeronautical Corp., a, b, g.
Power Designs Inc., a, c.
Power Supplies Inc., c, h.
Power Sources, Inc., a, c, d, h, m, n.
Power-Tronic Systems Inc., a thru d, m.
Precise Development Corp., g, h.
Project Fabrication Corp., i.
RS Electronics Corp., a, k.
Radar Design Corp., j, k.
Radiation, Inc.
Radiation Instrument Development Lab., Inc., b.
Radiatronics, Inc., j.
Ramo-Wooldridge Div., Thompson Ramo Wooldridge of Calif., a, b.
Research Appliance Co., b.
***RHEEM MFG. CO., DEFENSE & TECHNICAL PRODUCTS DIV., c, f, k.**
Rixon Electronics Inc., a, c.
Ronan & Kunzl, Inc., i.
Royal Industries, Inc., a thru d, g, h, l.
Safety Electrical Equipment Corp., a, c, d, l, m.
Sangamo Electric Co., a, c, h, l.
Sel-Rex Corp., a, d, m.
Sequoia Wire & Cable Co.-Div.-Mandrel Industries, Inc., a, c, d, h, m.
Servomechanisms, Inc., a, b, c, m.
Singer Mfg. Co., The, Military Products Div., a.
Small Motors Inc., d.
Sorensen & Co., Inc., a, h.
Southwestern Industrial Electronics Co., a thru h, j thru n.
Specialty Engrg. & Electronics Co., a.
Spectrol Electronics Corp., a, c, h, m.
Standard Electric Time Co., The, c.
Strong Scott Mfg. Co., The, n.
Sun Electric Corp., Aeronautical Div., g.
Syntron Co., a.
Systron Corp., a, b, g.
TKM Electric Corp., a.
Talley Corp., The, a, c, d, l.
Tapco Group, Thompson-Ramo-Wooldridge Inc., h.
Technical Apparatus Builders, a, c, d, h, l, m, n.
Telechrome Mfg. Corp., b, e, n.
Telectro Industries Corp., a, b, c, f, h, n.

Telerad Mfg. Corp., j.
Tel-Instrument Electronics Corp., g, h.
Terado Co., c, m.
Thompson-Ramo-Wooldridge Products Co., The, b.
Torwico Electronics, Inc., a, c.
Trans Electronics, Inc., a, c.
Transonic, Inc., a, c, d, h, m.
Turbo Machine Co., h, j, k.
United Control Corp., a, c.
United Electrodynamics, Inc., a, b, c, g, h, m.
U. S. Science Corp., Div.-Topp Industries, Inc., c, e, m.
Varo Mfg. Co., Inc., a, c, g, h, l, m.
Vitro Labs., b.
Waldorf Electronics. Div.-F.C. Huyck & Sons, b.
Waste King Corp., Technical Products Div., i.
Waugh Engrg. Co., a, g.
Wayne-George Corp., b.
Western Gear Corp., a, c, d, l, m.
Westinghouse Electric Corp., a, d, j.
Weston Instruments, Div.-Daystrom, Inc., a, b.
Wincharger Corp., Sub.-Zenith Radio Corp., a, c, m.
Winzen Research Inc., i.

CONVEYORS

American Conveyor Co.
American Machine & Foundry Co., Government Products Group
American Monorail Co., The
Albert H. Cayne Equipment Corp.
Chain Belt Co.
Colson Corp., The
Control Engrg. Co., Div. Jervis B. Webb Co.
Electronic Control Corp.
Goodyear Tire & Rubber Co., The, Aviation Products Div
Hapman Conveyors, Inc.
Hewitt-Robins, Inc.
Jeffrey Mfg. Co., The
Link-Belt Co.
Mc-Dowell-Wellman Companies, The
Mercury Tool & Mfg. Corp.
Mid-West Metal Products, Inc.
Nelson Labs., Inc.
Oliver Corp., The - A. B. Farquhar Div.
Pyles Industries, Inc.
Rapids-Standard Co., Inc., The
Ravenna Metal Products, Div.-Standard Screw Co.
Edw. Renneburg & Sons Co.
Richardson Scale Co.
Richards-Wilcox Mfg. Co.
Sealmaster Bearing Div., Stephens-Adamson Mfg. Co.
Smith-Morris Corp.
Stephens Adamson Mfg. Co., Seal Master Bearing Div.
A. T. Stevens Co.
Sturtevant Mill Co.
Syntron Co.
Texas Metal & Mfg. Co., Inc.
United States Rubber Co.
Western Gear Corp.

COOKERS, ELECTRONIC

Monogram Precision Industries
Raytheon Mfg. Co.

COOLANT RADIATORS

See RADIATORS, COOLANT

COOLANTS

Anderson Oil & Chemical Co., Inc.
Aro Equipment Corp.
George Bosch Co., The
***DOW CORNING CORP.**
E. F. Houghton & Co.
MSA Research Corp.
Minnesota Mining & Mfg. Co.
Monsanto Chemical Co. – Organic Chemicals Div.
WYE Industries

COOLERS, OIL

***AIRESEARCH MFG. CO., DIV.-THE GARRETT CORP.**
American Aeroparts
***BENDIX AVIATION CORP.-HAMILTON DIV.**
Dean Products, Inc.
Denison Engrg. Div., American Brake Shoe Co.
Doyle & Roth Mfg. Co., Inc.
Dunham-Bush Inc.
Eastern Industries Inc.
Ellis & Watts Products, Inc.
Griscom-Russell Co., The
Mercury Tool & Mfg. Corp.
Monogram Precision Industries
Portland Copper & Tank Works Inc.
South Wind Div., Stewart Warner Corp.
Standard-Thomson Corp., Clifford Mfg. Co. Div.
Thompson Engrg. Co., The, Missile Products Div.
Trane Co., The
Tranter Mfg., Inc.
United Aircraft Products, Inc.
Vilter Mfg. Co., The
Waste King Corp., Technical Products Div.

COOLING SYSTEMS, ELECTRONIC

***AIRESEARCH MFG. CO., DIV.-THE GARRETT CORP.**
Aro Equipment Corp.
***BENDIX AVIATION CORP.-HAMILTON DIV.**
Bendix Utica Div., Bendix Aviation Corp.
Dunham-Bush Inc.
Eastern Industries Inc.
Ellis & Watts Products, Inc.
Hamilton Standard, Div.-United Aircraft Corp.
C. G. Hokanson Co., Inc.
Hoover Electric Co.
Hussmann Aircraft Div.
Lear Inc., Lear-Romec Div.
Northrop Corp., The, Nortronics Div.
Ohio Semiconductors, Inc.
Pesco Products Div.-Borg-Warner Corp.
Pneumafil Corp.
South Wind Div., Stewart Warner Corp.
Stratos, Div.-Fairchild Engine & Airplane Corp.
Task Corp.
Trane Co., The
United Aircraft Products, Inc.
Waste King Corp., Technical Products Div.

COPPER LAMINATES, PRINTED CIRCUIT

Adept Industries Inc.
Cornish Wire Co. Inc.
General Plastics Corp. of New Jersey
Minnesota Mining & Mfg. Co.
National Vulcanized Fibre Co.
New England Laminates Co., Inc.
Rogers Corp.
St. Regis Paper Co., Panelyte Div.
Spaulding Fibre Co., Inc.
Taylor Fibre Co.
United States Chemical Milling Corp.

CORD SETS

Aerolite Electronics Corp.
Alden Products Co.
American Insulated Wire Corp.
W. A. Beauchaine & Sons Inc.
Birnbach Radio Co., Inc.
Cable Electric Products Inc.
Carmody Corp.
Consolidated Wire & Associated Companies
Cooper Industries, Inc.
Eagle Electric Mfg. Co. Inc.
Electrocraft, Inc.
Empire Electronics Co., Inc.
Essex Wire Corp.
First Electronics Corp., The
General Cable Corp.
Gordon Enterprises
Holyoke Wire & Cable Corp.
Koiled Kords Inc.
Modelectric Products Corp.
Mutron Corp.
National Pneumatic Co., Inc., Holtzer-Cabot Divs.
North Electric Co.
Paraplegics Mfg. Co., Inc.
Projects Unlimited Inc.
Milton Ross Metals Co., The
Royal Electric Corp.
Sequoia Wire & Cable Co.-Div.-Mandrel Industries, Inc.
Spectra-Strip Wire & Cable Corp.
Waldom Electronics Inc.
Whitaker Cable Corp.

CORDS

a. **Attachment**
b. **Dial**
c. **Dial Cords & Cables**
d. **Lacing**
e. **Line**
f. **Line Resistance**
g. **Patch**
h. **Retractile**
i. **Shock**

Aero Leather Products Co., d.
American Insulated Wire Corp., a, e.
American Super-Temperature Wires, Inc., d.
Associated Engrg. Corp., a, e, g.
Audio Development Co., g.
Aviation Textile Associates, d, e, i.
Belden Mfg. Co., a, e, g.
Birnbach Radio Co., Inc., a, c thru h.
Whitney Blake Co., e, h.
Borden Chemical Co., The, Div.-The Borden Co., Resinite Dept., d.
Coaxial Connector Co. Inc., e, g.
Columbian Rope Co., d.
Consolidated Wire & Associated Companies, a, e, f.
Cornish Wire Co. Inc., e.
C. R. Daniels, Inc., i.
Detronic Industries, g.
Eagle Electric Mfg. Co. Inc., a, e.
Empire Electronics Co., Inc., g.
Ericson Mfg. Co., The, e.
Essex Wire Corp., a, h.
First Electronics Corp., The, g.
General Cable Corp., b, c, g, h.
General Cement Mfg. Co., Div.-Textron, Inc., b, c.
General Electric Co., Wire & Cable Dept., e.
General Insulated Wire Works, a, h.
Gudebrod Bros. Silk Co., Inc., b, c, d.
Heminway & Bartlett Mfg., Co., The, d.
Holyoke Wire & Cable Corp., e, f.
ITT-Kellogg, b, c, g, h.
Koiled Kords Inc., h.
Metals & Controls Corp., General Plate Div.
Narrow Fabric Co., The, d.
National Pneumatic Co., Inc., Holtzer-Cabot Divs., b thru e, g, h.
New England Electrical Works, Inc., b, c.
M. M. Newman, Corp., d.
North Electric Co., b, c, g.
Paul Nurches Co., g.
Phalo Plastics Corp., a, e, g.
Pomona Electronics Co., Inc., g.
Milton Ross Metals Co., The, b, c.
Royal Electric Corp., a, e.
Schlegel Mfg. Co., d.
Sequoia Wire & Cable Co.-Div.-Mandrel Industries, Inc., g.
Spectra-Strip Wire & Cable Corp., d, g, h.
Standard Electric Time Co., The, g.
Stromberg-Carlson Div.-General Dynamics Corp., c, g.
Tap-A-Line Mfg. Co., e.
Vector Electronic Co., g.
Virginia Electronics Co., Inc., g.
Waldom Electronics Inc., e.
Waltham Horological Corp., f.
Westwood Cable Corp., g.

CORES

a. **C Type**
b. **Ceramic**
c. **Cut**
d. **E Type**
e. **Ferrite**
f. **High Permeability Magnetic**
g. **Iron**
h. **Laminated**
i. **Powdered**
j. **Slug Tuning Units**
k. **Tape Wound**
l. **Toroidal**

Aeronutronic Systems, Inc., Sub.-Ford Motor Co., e.
Aerovox Corp., a, e, f, i, l.
Airpax Electronics Inc. Seminole Div., l.
Airtron Inc., Div.-Litton Industries, e.
Alden Products Co., k.
American Lava Corp., b.
Arnold Engrg. Co., The, a, c, d, f thru l.
Barker Sales Co., a, k, l.
Cable Electric Products Inc., d, k.
Carborundum Co., Refractories Div., b.
Centralab, Div.-Globe-Union, b.
Chemold Co., h.
Collins Radio Co., l.
Continental Can Co., Inc., a, h.
Double E Products Co., g, l.
Dynacor, Inc., f, k, l.
Electro-Mechanical Products Co., g.
G-L Electronics Co., Inc., f, h, k, l.
Gladding, McBean & Co., b.
Hamilton Watch Co., e.
Isolantite Mfg. Corp., b.
Kip Electronics Corp., b.
Lend-Air Inc., g, h.
Liss Products, Inc., h.
Louthan Mfg. Co., The, Div.-Ferro Corp., e.
Magnetic Core Corp., b, f thru i, l.
Magnetics Inc., f, i, k, l.
Maryland Lava Co., b.
Metals & Controls Corp., General Plate Div., h.
Minnesota Mining & Mfg. Co., b, e.
Mitronics Inc., b.
J. J. Monaghan Co., Inc., c.
Monogram Precision Industries, e, f, h, i.
Motorola Inc., Military Electronics Div., b, e, i, j, l.
National Beryllia Corp., b.
National Moldite Co., a, b, d thru g, i, j, l.
Newton Co., The, k.
North Electric Co., f, g, l.
Norton Co., b.
Norton Co., New Products Dept., b.
Polymer Corp., The, f, i, l.
Q. O. S. Corp., f, g, i, l.
Radio Cores, Inc., f, g, i, j, l.
Ravenna Metal Products, Div.-Standard Screw Co., h.
Raybestos-Manhatton, Inc., Pa., h.
Research Development Mfg. Inc., g.
Milton Ross Metals Co., The, k, l.
Sangamo Electric Co., l.
Skinner Precision Products, b, e, f.
Smith-Morris Corp., g.
Stackpole Carbon Co., d, f.
Superex Electronics Corp., e.
Superior Steatite & Ceramic Corp., b.
Telemeter Magnetics, Inc., b.
Thermal Refractories Corp., b.
Vitro Labs., e.
Wesrep Corp., e, f, g, i, l.
Westinghouse Electric Corp., a, k, l.

COUNTERS

a. **Computer**
b. **Electro-Magnetic**
c. **Electronic**
d. **Footage**
e. **Frequency**
f. **Geiger**
g. **Impulse**
h. **Mechanical**
i. **Preset**
j. **Proportional**
k. **Radiation**
l. **Revolution**
m. **Scintillation**

Abrams Instrument Corp., b, g, i.
Ad-Yu Electronics Lab., Inc., c, d.
Aeronutronic Systems, Inc., Sub.-Ford Motor Co., e.
Airpax Electronics Inc., Seminole Div., b, c, e, g.
Alwac Corp., e.
Amerac Inc., l.
American Electronics, Inc., k, m.
American Electronics, Inc., American Nuclear Div., f, k.

American Electronics, Inc., Taller & Cooper Div., g, h.
American Machine & Foundry Co., Government Products Group, b thru e, g thru j, l.
Analogue Controls, Inc., a, c.
Anton Electronic Labs., Inc., f, j, k.
Atlas Precision Products, Co., a, h.
Automation Dynamics Corp., b, c, i.
Avien, Inc., g, l.
Baird-Atomic, Inc., c, i, j, k, m.
Baldwin Piano Co., The, Industrial Products Div., c.
Barker & Williamson Inc., l.
Beckman Instruments, Inc., Berkeley Div., c, e, l.
Beckman-Systems Div., a.
Bell & Gossett Co., c.
Bendix Aviation Corp., York Div., a.
Benson-Lehner Corp., g, l.
Beva Lab., Inc., c, g, m.
Ernest E. Blanche & Associates, Inc., a.
Bowmar Instrument Corp., b, h, j, l.
Brown Engrg. Co., Inc., i.
Burroughs Corp., a, b, c.
Burroughs Corp., Electronic Tube Div., c, i.
Burton-Rodgers, Inc., a.
Cameraflex Corp., d.
Centronix Inc., a, c, e, j.
Chicago Aerial Industries, Inc., d.
Clary Dynamics, a, b, c, g, h.
Cleveland Metal Specialties Co., Electronics Div., a.
DBM Research Corp., a, c.
Data Instruments Div.-Telecomputing Corp., i, l.
Davenport Mfg. Co., c.
Di-An Controls, Inc., a, c, e, g, i.
Dresser Industries, Inc., c, l.
Durant Mfg. Co., b, d, e, g, h, i, l.
Dymec Inc., c, e, i.
Elcor, Inc., b.
Eldorado Electronics, c, k.
Electro Precision Corp., c, e, i.
Electronic Control Corp., c.
Electronic Engrg. Co. of California, a, c, e, g, i.
Electro-Tech Equipment Co., b, d, h, l.
Elgin Micronics Div.-Elgin National Watch Co., b, g, m.
Elgin Micronics, West Coast Div.-Elgin National Watch Co., c.
Epic, Inc., b.
Era Engrg. Inc., k.
Erie Instrumation, Div. Erie Resistor Corp., c, e, i, l.
Erie Resistor Corp., c, e, g, h, i, l.
Exact Engrg. & Mfg. Inc., a, b, h.
First Electronics Corp., The, b, g, h.
Fischer & Porter Co., c, g.
Fisher Research Lab., Inc., f, k, m.
Fisher Scientific Co., h.
Ford Instrument Co., Div.-Sperry Rand Corp., a, c, h.
Freed Transformer Co. Inc., c, i.
General Devices, Inc., c, g, h.
General Electric Co., X-Ray Dept., k, m.
General Electro-Mechanical Corp., b, g.
Gordon Enterprises, b, d, e, g, h, i, l.
Hamilton Standard, Div.-United Aircraft Corp., b, c.
Hamilton Watch Co.-Industrial Div., b, g.
Harvey-Wells Electronics Inc., a.
***A. W. HAYDON CO., THE**, b, g, j.
Hayward Scientific Glass Corp., m.
Hewlett-Packard Co., c, e, i, l, m.
Hillburn Electronic Products Co., b, g.
Hoffman Electronics Corp., Semiconductor Div., g.
I-L-S Instrument Div., The Meriam Instrument Co., a, c, d, e, g, i, l.
ITT-Kellogg, g.
Industrial Winding Machinery Corp., h, i.
Instruments Div.-Philips Electronics, Inc., f, j, k, m.
Interstate Electronics Corp., c, f, g, j, k, m.
***KEARFOTT CO., INC.**, a, c, h.
Land-Air Inc., b, g, h, m.
Landis & Gyr Inc., b, g, i, l.
La Roe Instruments, Inc., c, e, f, k.
Lavoie Laboratories Inc., c.
Levinthal Electronic Products, Inc., m.
Librascope Inc., a.
Magnetic Instrument Co. Inc., m.
Mast Development Co., Inc., b, d, g, h, l.
Menlo Research Lab., f, k, l.
Minneapolis-Honeywell Regulator Co.-Davies Labs. Div., d.
Moran Instrument Corp., f, k, m.
Motorola Inc., Military Electronics Div., a, b, c.
Navigation Computer Corp., a, e, i.
Neumade Products Corp., d.
North Electric Co., b, l.
Northeastern Engrg. Inc., e, i.
Nuclear-Chicago Corp., f, g, i, j, k, m.
Orbitron Co., Inc., c.
***PACKARD-BELL ELECTRONICS CORP.**, a, b, c.
Patterson, Moos Div. - Universal Winding Co., Inc., a, b.
Photocon Research Products, b, h, i.
Pilot Chemicals, Inc., m.
Potter Aeronautical Corp., c, e, g, i, j, l.
Radiation, Inc.
Radiation Instrument Development Lab., Inc., f, j, k, m.
Resdel Engrg. Corp., c.
Richardson Scale Co., c, h.
Royal Industries, Inc., c, g.
Singer Mfg. Co., The, Military Products Div., a, b, h, i, j.
Specialty Engrg. & Electronics Co., a, c, e, f, k.
Spectrol Electronics Corp., h.
Sperry Gyroscope Co., Marine Div., Div.-Sperry Rand Corp., a.
Standard Electric Time Co., The, c, l.
Stanley Aviation Corp., k, m.
Systron Corp., d, e, g, i thru l.
Talley Corp., The, b, h.
Telechrome Mfg. Corp., c, g, h.
Telectro Industries Corp., a, b.
Transistor Electronics Corp., a.
U. S. Industries, Inc.
Veeder-Root Inc., b, c, d, g thru j, l.
Victor Adding Machine Co., c, g.
Vitro Labs., a.
Wakmann Watch Co. Inc.
Walkirt Co., a, c, e, g, i, l.
Waltham Precision Instrument Co., b.
Webcor, Inc., Government Div., a, b, c, e, h.
Wilks Precision Instrument Co., Inc., h.
N. Wood Counter Lab., f, j, k, m.
Wright Engrg. Co., h, i.

COUNTING DEVICES

Abrams Instrument Corp.
Allegany Instrument Co., Inc.
American Electronics, Inc., Taller & Cooper Div.
American Machine & Foundry Co., Government Products Group
Atlas Precision Products, Co.
Automation Dynamics Corp.
Baird-Atomic, Inc.
Beckman Instruments, Inc., Berkeley Div.
Benson-Lehner Corp.
Beva Lab., Inc.
Ernest E. Blanche & Associates, Inc.
Bowmar Instrument Corp.
Bristol Co., The
Brown Engrg. Co., Inc.
Brush Instruments, Div.-Clevite Corp.
Centronix Inc.
Data Instruments Div.-Telecomputing Corp.
Di-An Controls, Inc.
Dresser Industries, Inc.
Durant Mfg. Co.
Electro Precision Corp.
Electro Products Laboratories, Inc.
Electro-Tech Equipment Co.
Exact Engrg. & Mfg. Inc.
Fischer & Porter Co.
General Devices, Inc.
Gordon Enterprises
Harvey-Wells Electronics Inc.
***A. W. HAYDON CO., THE**
Hewlett-Packard Co.
Hoffman Electronics Corp., Semiconductor Div.
I-L-S Instrument Div., The Meriam Instrument Co.
I-T-E Circuit Breaker Co.
Instruments Div.-Philips Electronics, Inc.
***KEARFOTT CO., INC.**
Landis & Gyr Inc.
Motorola Inc., Military Electronics Div.
Northeastern Engrg. Inc.
Northrop Corp., The, Nortronics Div.
PIC Design Corp., Sub.-Benrus Watch Co., Inc.
Photobell Co., Inc.
Potter Aeronautical Corp.
Royal Industries, Inc.
Servomechanisms, Inc.
Specialty Engrg. & Electronics Co.
Systron Corp.
Telectro Industries Corp.
Vitro Labs.
Walkirt Co.
Webcor, Inc., Government Div.
Worner Electronic Devices

COUPLERS, DIRECTIONAL, MICROWAVE

Aircom Inc.
Aircom Inc. of New Jersey
Airtron Inc., Div.-Litton Industries
American Electronics, Inc.
American Machine & Foundry Co., Government Products Group
Antenna & Radome Research Associates
Bogart Mfg. Corp.
Budd Stanley Co. Inc.
Bulow Electric Co.
California Technical Industries, Div.-Textron Inc.
Cooper Development Corp., Sub.-Marquardt Aircraft Co.
Demornay-Bonardi
Diamond Antenna & Microwave Corp.
Douglas Microwave Co., Inc.
Electronic Communications, Inc.
Walter J. Hyatt Co., The
ITT Federal Div., International Telephone & Telegraph Corp.
Indusl Prod.-Danbury Knudsen Div. Amphenol-Borg Electronics Corp.
J-V-M Microwave Co.
***KEARFOTT CO., INC.**
Lieco, Inc.
Litton Industries, Inc.
Litton Industries, Maryland Div.
W. L. Maxson Corp., The
Meridian Metalcraft, Inc.
Microlab
Microwave Associates, Inc.
Monogram Precision Industries
Motorola Inc., Military Electronics Div.
N. R. K. Mfg. & Engrg. Co.
Narda Microwave Corp., The
Omega Labs., Inc.
Philco Corp., Government & Industrial Div.
Polytechnic Research & Development Co., Inc.
Portchester Instrument Corp.
Prodelin Inc.
Radar Design Corp.
Radiation, Inc.
Sage Labs., Inc.
Sperry Microwave Electronics Co., Div.-Sperry Rand Corp.
Tapco Group, Thompson Ramo Wooldridge Inc.
Technical Appliance Corp.
Telectro Industries Corp.
Telerad Mfg. Corp.
Turbo Machine Co.
Varian Associates
Victor R. F. & Microwave Co.
Weinschel Engrg.
Wheeler Laboratories, Inc.

COUPLERS & KEYERS

See KEYERS & COUPLERS

COUPLERS, TRANSMITTER

Amatom Electronic Hardware Co. Inc.
Amelco, Inc.
Collins Radio Co.
Electronic Communications, Inc.
E. F. Johnson Co.
***KEARFOTT CO., INC.**
Lear, Inc.
Radiation, Inc.
Telerad Mfg. Corp.

COUPLING & PHASING UNITS

Aircom Inc.
Amatom Electronic Hardware Co. Inc.
***KEARFOTT CO., INC.**
Motorola Inc., Military Electronics Div.
Piasecki Aircraft Corp.
Radiation, Inc.
Telerad Mfg. Corp.

COUPLINGS

a. Flexible
b. Hydraulic
c. Microwave
d. Quick Disconnect
e. Rigid
f. Shaft
g. Shaft, Reducers & Extensions
h. Shaft, Rigid & Flexible
i. Tube

Accurate Electronics Corp., Dept. D, a.
Aeroquip Corp., Jackson Div., a, b, d, i.
Aerotec Corp., The, d.
Airaterra, b, d.
Aircom Inc., c.
Aircom Inc. of New Jersey, c.
Airdome Parts Co., b, i.
***AIRESEARCH MFG. CO., DIV.-THE GARRETT CORP.**, d.
Airtron Inc., Div.-Litton Industries, a, c, d, e.
Allen Aircraft Products, Inc., d.
Alloy Bellows Inc., a.
Amatom Electronic Hardware Co. Inc., a, e, thru h.
American Machine & Foundry Co., Government Products Group, c, d.
Anchor Coupling Co., Inc., b, i.
Arnav Aircraft Associates, Inc., i.
Atlas Precision Products, Co., f.
Avica Corp., i.
***BALCRANK INC., MACHINE TOOL DIV.**, b.
Baldwin Mfg. Co. Inc., The, f, g.
Barker & Williamson Inc., a.
Benbow Mfg. Corp., b, d.
Bendix Utica Div., Bendix Aviation Corp., a, d.
Best Aircraft Corp., a, b, d, e, i.
Birnbach Radio Co., Inc., f, g, h.
Bobrick Mfg. Corp., d.
Bogart Mfg. Corp., c.
Boston Gear Works, a.
Breeze Corporations, Inc., a.
Bruning Co., The, b, d, h.
Buckeye Iron & Brass Works, d.
Bud Radio Inc., a, f.
Budd Stanley Co. Inc., c.
Bulow Electric Co., c.
Bushings, Inc., a, f.
Carmac Aviation, a thru i.
Century Fasteners Corp., b, d.
Chain Belt Co., h.
Chase Brass & Copper Co., Inc., i.
Chicago Gasket Co., a.
Coaxial Connector Co. Inc., c, e.
Collins Engrg. Corp., a.
Continental Rubber Works, a.
Control Engrg. Co., Div. Jervis B. Webb Co., d.
Cooper Development Corp., Sub.-Marquardt Aircraft Co., d.
Curtiss-Wright Corp.-Wright Aeronautical Div., e, f, g, i.
Demornay-Bonardi, c.
Dial Products Co., a, h.
Diamond Antenna & Microwave Corp., c.
Dockendorff & Co. Inc., a, f.
Dodge Mfg. Corp., a, e, f, h.
Douglas Microwave Co., Inc., c.
Dresser Mfg. Div., Dresser Industries, Inc., a, b, d, e, f, i.
Elsin Electronics Corp., c.
Essex Mfg., Co., Inc., b, d.
FAE Instrument Corp., a.
Farrel Birmingham Co. Inc., a, b.

Federal Machine Co. Inc.
***FLEXONICS CORP., AERONAUTICAL DIV., a.**
Flight Refueling, Inc., a, d, i.
Ford Instrument Co., Div.-Sperry Rand Corp., a.
Goe Engrg. Co., e, h.
John Gombos Co., Inc., c.
Graphite Metallizing Corp., c.
Gray Co., Inc., b, d.
B. H. Hadley, Inc., d.
Hallett Mfg., Co., d.
Hansen Mfg. Co., The, b, d.
Helipot Div.-Beckman Instruments Inc., a, e thru h.
Hewitt-Robins, Inc., a, e.
Highland Rim Machine Works Inc., a, d, e, f.
Holman Labs., Inc., d.
Holland Hitch Co., d, e.
Hufford Corp., The, b, d.
Hupp Aviation Co., e, f, g.
Walter J. Hyatt Co., The, b, c, d.
Hydra-Power Corp., b.
Imperial Brass Mfg. Co., The, i.
Integral Corp., b, d.
Jan Hardware Mfg. Co., Inc., e, f, g.
***JANITROL AIRCRAFT DIV., SURFACE COMBUSTION CORP.**, a, d, e, i.
E. F. Johnson Co., a, e thru h.
Kahn & Co., Inc., d.
***KEARFOTT CO., INC.**, c.
Keystone Electronics Corp., f.
H. Koch & Sons, a, d, e.
Koppers Co., Inc., a.
Koppers Co., Inc., Metal Products Div., a.
Ladish Co., b, d, e.
Lear, Inc., h.
Lear, Inc., Grand Rapids Div., a.
Lieco, Inc., c, d.
Link-Belt Co., a, e thru h.
Litton Industries, Inc., a, c, d.
Litton Industries, U. S. Engrg. Co. Div., f.
Lord Mfg. Co., a, h.
Lovejoy Flexible Coupling Co., a, e.
Marman Div., Aeroquip Corp., a, b, d, e.
W. L. Maxson Corp., The, c.
Mercury Tool & Mfg. Corp., b, e, i.
Meridian Metalcraft, Inc., c.
Metron Instrument Co., a.
Microwave Associates, Inc., c.
Monogram Precision Industries, c, d.
Motorola Inc., Military Electronics Div., c.
Mueller Brass Co., i.
N. R. K. Mfg. & Engrg. Co., c, e.
Narda Microwave Corp., The, c.
National Utilities Corp., a, b, d, e, i.
OPW-Jordan, d.
Omega Labs., Inc., c.
On Mark Couplings, Inc., a thru e, i.
Orchard Industries, Inc., Actionflex Div., a, b, i.
Owatonna Tool Co., b.
Ozone Metal Products Corp., b, d.
PIC Design Corp., Sub.-Benrus Watch Co., Inc., a, d thru h.
Parker Fittings & Hose Div., Parker-Hannifin Corp., i.
Parts Engrg. Co., Inc., a, b, d thru i.
Philco Corp., Government & Industrial Div., c.
Piasecki Aircraft Corp., d.
Pyles Industries, Inc., b, d.
Radar Design Corp., c.
Randall Engrg. Corp., b, d.
Reeves Instrument Corp., h.
Reflectone Corp., The, a.
Renbrandt, Inc., a.
Resistoflex Corp., a, b, e.
Ronson Hydraulic Units Corp., b.
Roylyn Inc., b, e.
Rubber Teck Inc., a, b, e, i.
Sargent Engrg. Corp., d, f, g, h.
Servomechanisms, Inc., Mechatrol Div., a, f, g.
Sier-Bath Gear & Pump Co., Inc., a, d thru h.
Smith-Morris Corp., d, e.
Snap-Tite, Inc., b, d.
Southwest Products Co., a, h.
Special Instruments Div., British Industries Corp., c.
Specialty Products Corp., d.
Stainless Steel Products, Inc., a.
Sterling Precision Corp., Instrument Div., a, f, g, h.
F. W. Stewart Corp., h.
Stratoflex, Inc., a, b, d, i.
Strong Scott Mfg. Co., The, f, g.
Superior Pneumatic & Mfg., Inc., d.
Surface Combustion Corp., e.
Tapco Group, Thompson Ramo Wooldridge Inc., b, d.
Teleflex Inc., d, e.
Telerad Mfg. Corp., c.
Thiokol Chemical Corp., d.
Titeflex, Inc., b, d.
Turbo Machine Co., c.
Turbo Products, Inc., b, d.
U. S. Flexible Metallic Tubing Co., a, d.
United States Rubber Co., a.
Variety Aircraft Corp., a, e thru h.
Vemaline Products Co., a.
Victor R. F. & Microwave Co., c.
W-S Fittings Works, Forge & Fittings Div., H. K. Porter Co., Inc., b.
Waveline, Inc., c.
Wesrep Corp., a.
Western Gear Corp., d, e, f.
Western International Co., a, c, d.
E. B. Wiggins Oil Tool Co. Inc., a thru h.
Wyzenbeek & Staff, Inc., f.
Zallea Brothers, a.

CRANES

Acco Equipment Div., American Chain & Cable Co., Inc.
American Monorail Co., The
Austin-Western, Constr. Equip. Div.,-Baldwin-Lima-Hamilton Corp.
Baker Industrial Trucks, Div.-Otis Elevator Co.
Blackhawk Mfg. Co.
Breeze Corporations, Inc.
Albert H. Cayne Equipment Corp.
Chisholm-Moore Hoist Div., Columbus McKinnon Chain Corp.
Cleveland Pneumatic Industries, Inc.
Conco Engrg. Works
Crane Carrier Corp.
Detroit Hoist & Machine Co.
Elwell-Parker Electric Co., The
Link-Belt Co.
McDowell-Wellman Companies, The
Pacific Coast Engrg. Co.
Regent Jack Mfg. Co., Inc.
Richards-Wilcox Mfg. Co.
Robbins & Myers, Inc., Hoist & Crane Div.
Silent Hoist & Crane Co.
Unit Crane & Shovel Corp.
Western Gear Corp.

CRANKS

***BALCRANK INC., MACHINE TOOL DIV.**

CRASH LOCATOR, BEACONS
See BEACONS, CRASH LOCATOR

CRYSTAL
a. Crystal Analysis Equipment
b. Cartridges
c. Communications
d. Mounts
e. Sockets

Airborne Instruments Lab., Div.-Cutler-Hammer, Inc., a.
Aircom Inc., d.
Airtron Inc., Div.-Litton Industries, d.
American Electronic Labs., Inc., d.
Augat Brothers, Inc., d, e.
Baldwin Piano Co., The, Industrial Products Div., a, c, d.
Rex Bassett, Inc., c.
Bulova Watch Co., Electronics Div., c.
Clark Crystal Co., c.
Demornay-Bonardi, d.
Douglas Microwave Co., Inc., d.
General Crystal Co., Inc., c.
Hunt Corp., The, a, c.
Instruments Div.-Philips Electronics, Inc., a.
Javex Electronics, e.
E. F. Johnson Co., e.
Kay Electric Co., a.
E. B. Lewis Co., Inc., c.
Lieco, Inc., d.
Linde Co., Div.-Union Carbide Corp.
Mc Coy Electronics Co., c.
Midland Mfg. Co., Inc., c.
Mosley Electronics, Inc., e.
Motorola Inc., Military Electronics Div., a thru e.
Narda Microwave Corp., The, d.
Northern Engrg. Laboratories, Inc., c.
Norton Co., New Products Dept.
Philco Corp., Government & Industrial Div., c.
Piezo Crystal Co., c.
Polytechnic Research & Development Co., Inc., d.
Premier Research Labs., Inc., c.
Radar Design Corp., d.
Sage Labs., Inc., d.
Scientific-Atlanta, Inc., d.
Special Instruments Div., British Industries Corp., d.
Staver Co., Inc., The, d.
Sylvania Electric Products Inc., Parts Div., a.
Valpey Crystal Corp., c.
Victor R. F. & Microwave Co., d.
Waldom Electronics Inc., e.
Wright Electronics Inc., c.
Wright Engrg. Co., a.

CRYSTAL HOLDERS
See HOLDERS, CRYSTAL

CRYSTAL OVEN, HEATING, ELEMENTS
See ELEMENTS, HEATING, CRYSTAL OVEN

CRYSTAL RECTIFIER CHECKERS
See CHECKERS, CRYSTAL RECTIFIER

CRYSTALS

Baldwin Piano Co., The, Industrial Products Div.
Rex Bassett, Inc.
Bram Metallurgical & Chemical Co.
Bulova Watch Co., Electronics Div.
Cambridge Thermionic Corp.
Diamond Drill Carbon Co., The
Genalex Div.-British Industries Corp.
General Electric Co., X-Ray Dept.
P. R. Hoffman Co.
Hunt Corp., The
E. B. Lewis Co., Inc.
Linde Co., Div.-Union Carbide
Mc Coy Electronics Co.
Midland Mfg. Co., Inc.
Motorola Inc., Military Electronics Div.
Northern Engrg. Laboratories, Inc.
Norton Co.
Philco Corp., Government & Industrial Div.
Piezo Crystal Co.
Premier Research Labs., Inc.
Radiation Instrument Development Lab., Inc.
Scientific Radio Products, Inc.
U. S. Semiconductor Products, Inc.
Valpey Crystal Corp.

CRYSTALS, DIAL
See DIAL CRYSTALS

CRYSTALS, RAW

Baldwin Piano Co., The, Industrial Products Div.
Diamond Drill Carbon Co., The
P. R. Hoffman Co.
Linde Co., Div.-Union Carbide
Motorola Inc., Military Electronics Div.
U. S. Semiconductor Products, Inc.
Valpey Crystal Corp.

CRYSTALS, SAPPHIRE

Baldwin Piano Co., The, Industrial Products Div.
Bram Metallurgical & Chemical Co.
Linde Co., Div.-Union Carbide
Teiner Engrg. Corp.
Weaver Mfg., Co.

CUTTERS

Aircraft Tools, Inc.
Fulton-Irgon Corp., The
Hobbs Mfg. Co.
Lovejoy Tool Co., Inc.
Norwalk Cutter Sharpening Co.
Onsrud Cutter Mfg. Co., Inc.
Onsrud Machine Works, Inc.
Pioneer Industries Div., Almar-York Co., Inc.
H. K. Porter Co., Inc.
H. P. Preis Engraving Machine Co.
Radial Cutter Mfg. Corp.
M. H. Rhodes, Inc.

CYLINDERS
a. Air
b. Compressed Gas
c. Hydraulic
d. Rocket Engine

ACF Industries Inc., c, d.
Adel Precision Products of California, Div.-General Metals Corp., c.
Aerojet-General Corp., d.
Alco Products, Inc., d.
Allenair Corp., a, c.
American Aeroparts, c.
American Car & Foundry, Div.-ACF Industries, Inc., d.
American Machine & Foundry Co., Government Products Group, a thru d.
American Measurement & Control, Inc., c.
***ANNIN CO., THE**, a, c.
Astronautics Engrg. Co., c.
Baker Industrial Trucks, Div.-Otis Elevator Co., c.
***BENDIX PRODUCTS DIV., BENDIX AVIATION CORP.**, d.
Benton Harbor Engrg. Works, Inc., c.
Blackhawk Mfg. Co., c.
E. W. Bliss Co., d.
Brooks & Perkins, Inc., d.
Bruning Co., The, c.
Burklyn Co., a.
Cadillac Gage Co., c.
***CAMERON IRON WORKS, INC.**, d.
Captial City Mfg. Co., c, d.
Carter Controls, Inc., a, c.
Chrysler Corp., Defense Operations Div., d.
Cleveland Pneumatic Industries, Inc., a, b, c.
Clippard Instrument Lab., Inc., a, c.
Commercial Shearing & Stamping Co., c.
Components Corp., a, b.
Conoflow Corp., a.
Cornelius Co., The, Aero Div., a.
Curtiss-Wright Corp.-Wright Aeronautical Div., d.
D K Mfg. Co., a.
Doyle & Roth Mfg. Co., Inc., a thru d.
Dresser Industries, Inc., a thru d.
Dukes Co., Inc., c.
Eastern Industries Inc., c.
Electrol Inc., c.
Electro-Tech Equipment Co., a.
Galland-Henning Nopak Div., a, c.
Globe Hoist Co., a, c.
Hannifin Co., Div.-Parker-Hannifin Corp., a, c.
Haskel Engrg. & Supply Co., a, b, c.
Hoke Inc., a, b.
Walter J. Hyatt Co., The, c.
Hydra-Power Corp., a, c.
Hydraulic Press Mfg. Co., The, Div.-Koehring Co., a, c.
Integral Corp., c.
Intercontinental Mfg. Co., Inc., d.
Interstate Engrg. Corp., c.
Kahn & Co., Inc., a.
Kaiser Metal Products, Inc. - Fleetwings Div., d.
M. W. Kellogg Co., The, d.
Walter Kidde & Co., Inc., Aviation Div., a, b.
Lamtex Industries, Inc., a thru d.
Lear, Inc., a, c.
Ledeen Inc., a, c.
***LYCOMING DIV., AVCO MFG. CORP.**, d.
Machine Products Div., New Haven Trap Rock Co., d.
Matheson Co., Inc., The, a, b.

McDowell-Wellman Companies, The, a, c.
Menasco Mfg. Co., a, b, c.
Mercury Tool & Mfg. Corp., c, d.
Minnesota Mining & Mfg. Co., b, d.
Monogram Precision Industries, a thru d.
National Pneumatic Co., Inc., Holtzer-Cabot Divs., a.
National Tube Div.,-United States Steel Corp., a, b.
Newbrook Machine Corp., d.
Newton Hydraulic Tooling Co., c.
Norris-Thermador Corp., b, c, d.
Oliver Corp., The, c.
Ortman-Miller Machine Co., Inc., a, c.
Owatonna Tool Co., c.
Ozone Metal Products Corp., a, c.
Pioneer Tool & Engrg. Co., c.
Pressed Steel Tank Co., a thru d.
Reaction Motors Div., Thiokol Chem. Corp., d.
Red Lion Cabinet Co., Redco Tool Div., c, d.
Regent Jack Mfg. Co., Inc., c.
Republic Mfg. Co., c.
***RHEEM MFG. CO., DEFENSE & TECHNICAL PRODUCTS DIV., d.**
Rivett Lathe & Grinder Inc., a, c.
Ronson Hydraulic Units Corp., a thru d.
Rotary Lift Co., Div.-Dover Corp., c.
Rotex Punch Co., Inc., a, b, c.
Ryan Aeronautical Co., d.
S-P Mfg. Corp., The, a, c.
Sancor Corp., c.
Sargent Engrg. Corp., a, b, c.
A. O. Smith Corp., b, d.
Smith-Morris Corp., a, c, d.
Strong Scott Mfg. Co., The, d.
Tapco Group, Thompson Ramo Wooldridge Inc., c, d.
Taylor Winfield Corp., a.
Twigg Industries, d.
United Aircraft Products, Inc., c.
Vickers Inc., Marine & Ordnance Dept., Machinery Hydraulics Div., c.
Waste King Corp., Technical Products Div., d.
Weaver Mfg., Co., c.
Weston Hydraulics Ltd.-Sub., Borg-Warner Corp., a, b, c.
Wheland Co., The, d.
Wickfield, Inc., c.
Wise Aerodraulics, Inc., c.
Worcester Pressed Steel Co., b.

DAMPERS, CONTROL

Anchor Metal Spinning Co., The
Chandler Evans Corp.
Clemco Aero Products, Inc.
Cleveland Pneumatic Industries, Inc.
Federal Shock Mount Corp.-Div. The Korfund Co., Inc.
Ford Instrument Co., Div.-Sperry Rand Corp.
***HOUDAILLE INDUSTRIES, INC., BUFFALO HYDRAULICS DIV.**
Korda Industries
Lear, Inc.
Lear, Inc., Grand Rapids Div.
Lundy Mfg. Corp.
Lyndon Aircraft, Inc.
Minneapolis-Honeywell Regulator Co., Aeronautical Div.
Minneapolis-Honeywell Regulator Co., Industrial Div.
Monogram Precision Industries
Ozone Metal Products Corp.
Edw. Renneburg & Sons Co.
Ryan Aeronautical Co.
Sargent Engrg. Corp.
Sesco Mfg., Inc.
Weston Hydraulics Ltd.-Sub., Borg-Warner Corp.

DAMPERS, PULSATION

Anchor Metal Spinning Co., The
Barrett-Christie Co.
Cleveland Pneumatic Industries, Inc.
Consolidated Controls Corp.
Consolidated Diesel Electric Corp.
***DOW CORNING CORP.**
Dunbar-Kapple Inc.-Aircraft Components Div.
Korda Industries
Lyndon Aircraft, Inc.
Monogram Precision Industries
National Engrg. Products, Inc.
Ozone Metal Products Corp.
Parker Fittings & Hose Div., Parker-Hannifin Corp.
Edw. Renneburg & Sons Co.
Sargent Engrg. Corp.
A. U. Stone & Co., Inc.

DAMPERS, VIBRATION & SHIMMY

Actuation Research Corp.
American Aeroparts
Anaconda Metal Hose Div., The American Brass Co.
Anchor Metal Spinning Co., The
Clemco Aero Products, Inc.
Cleveland Pneumatic Industries, Inc.
***DOW CORNING CORP.**
Federal Shock Mount Corp.-Div. The Korfund Co., Inc.
General Electric Co., Metallurgical Products Dept.
B. F. Goodrich Industrial Products Co.
***HOUDAILLE INDUSTRIES, INC., BUFFALO HYDRAULICS DIV.**
Huntington Rubber Mills
Hydro-Power Corp.
J. W. Johnson & Co., Inc.
Korda Industries
Lord Mfg. Co.
Lyndon Aircraft, Inc.
MB Mfg. Co.
McDowell-Wellman Companies, The
***MIRAX CHEMICAL PRODUCTS CORP., METAL CONTAINER DIV.**
Monogram Precision Industries
George L. Nankervis Co.
Ozone Metal Products Corp.
Raybestos-Manhattan, Inc.
Robinson Technical Products, Inc.
Ronson Hydraulic Units Corp.
Rubbercraft Corp. of California
Sargent Engrg. Corp.
Sesco Mfg., Inc.
A. T. Stevens Co.
Taylor Devices, Inc.
Turbo Products, Inc.
Weston Hydraulics Ltd.-Sub., Borg-Warner Corp.

DATA
a. Recorders, Analog
b. Recorders, Digital
c. Recording Equipment

ACF Industries Inc., a, b, c.
Aeronutronic Systems, Inc., Sub.-Ford Motor Co. b, c.
Airpax Electronics Inc. Seminole Div., b.
Allegany Instrument Co., Inc., a, b, c.
Alwac Corp., b.
American Electronics, Inc., a, b, c.
American Electronics, Inc., Taller & Cooper Div., a, b, c.
American Machine & Foundry Co., Government Products Group, c.
Atlas Precision Products, Co., a.
***AVCO MFG. CORP., CROSLEY DIV.**
B & F Instruments, Inc., c.
BJ Electronics, Borg-Warner Corp., c.
Barker Sales Co., c.
Beckman Instruments, Inc., Berkeley Div., b.
Bendix Aviation Corp., York Div., a, b.
Benson-Lehner Corp., c.
Ernest E. Blanche & Associates, Inc., b.
Bristol Co., The, a, b, c.
Brush Instruments, Div.-Clevite Corp., a, b, c.
Bulow Electric Co., c.
Centronix Inc., a, b, c.
Century Electronics & Instruments, Inc., a, c.
Clary Dynamics, b.
Consolidated Avionics Corp., c.
Consolidated Electrodynamics Corp., a, b, c.
Cooper Development Corp., Sub.-Marquardt Aircraft Co., c.
Data Instruments Div.-Telecomputing Corp., b.
Data-Control Systems, Inc., a, c.
Datex Corp., b, c.
Datran Electronics, Div.-Mid-Continent Mfg. Co., Inc., b.
Di-An Controls, Inc., b, c.
Dresser Industries, Inc., a, b, c.
Dymec Inc., c.
Edgerton, Germeshausen & Grier, Inc., c.
Eldorado Electronics, b.
Electro Instruments, Inc., a, b, c.
Electronic Engrg. Co. of California, a, b, c.
Electronic Tube Corp., b.
Elgin Micronics Div.-Elgin National Watch Co., a.
Emerson Electric Mfg. Co., The, Electronics & Avionics Div., a.
Federal Scientific Corp., c.
Fischer & Porter Co., a, b.
Ford Instrument Co., Div.-Sperry Rand Corp., a, b, c.
General Electric Co., Apparatus Sales Div., a, b, c.
General Electric Co., Computer Dept., a, b, c.
General Precision Lab. Inc., c.
G. M. Giannini & Co., Inc., a, b.
Gilmore Industries, Inc., a, b, c.
Gordon Enterprises, c.
Graflex Inc., c.
Hagan Chemicals & Controls, Inc., c.
Haller, Raymond & Brown Inc. Div., Singer Mfg. Co., c.
Hanson-Gorrill-Brian, Inc., b.
Walter J. Hyatt Co., The, a.
***KEARFOTT CO., INC.**, a, b, c.
Land-Air Inc., c.
Leach Corp., a, b, c.
Leeds & Northrup Co., a, c.
Librascope Inc., a, b.
Litton Industries, Inc., c.
Magnavox Co., The, b.
Magnetic Instrument Co. Inc., a.
Maico Electronics, Inc., a, b, c.
Massa Div.-Cohu Electronics, Inc., a, c.
Micrometrical Mfg. Co., c.
Midwestern Instruments, Inc., a, b, c.
Milgo Electronic Corp., a, b, c.
Minneapolis-Honeywell Regulator Co., Davies Labs. Div., a, b, c.
Minneapolis-Honeywell Regulator Co., Industrial Div., a, b, c.
Minneapolis-Honeywell Regulator Co., Industrial Product Group, a, b, c.
F. L. Moseley Co., a, b, c.
Motorola Inc., Military Electronics Div., a, b, c.
New England Scientific Instruments Co., c.
Offner Electronics Inc., a, c.
Philco Corp., Government & Industrial Div., b, c.
Radiation, Inc., a, b, c.
Research Appliance Co., b.
Royal Industries, Inc., a, b, c.
Sanborn Co., a, c.
Seiscor Mfg. Co., a, b.
Soroban Engrg., Inc., b, c.
Systron Corp., a, b, c.
Technitrol Engrg. Co., b, c.
Telechrome Mfg. Corp., a, b, c.
Telectro Industries Corp., a, b, c.
Thompson-Ramo-Wooldridge Products Co., The, a, b, c.
Traid Corp., c.
Varian Associates, a.
Victor Adding Machine Co., b, c.
Vitro Labs., b, c.
Vought Co., c.
Wang Labs., Inc., b.
Waste King Corp., Technical Products Div., a, c.
Wayne-George Corp., b.
Webcor, Inc., Government Div., a, b, c.
Westronics Inc., a.

DECADE BOXES

Abalon Precision Mfg. Corp.
Aerovox Corp.
Anchor Metal Spinning Co., The
Cambridge Instrument Co., Inc.
Clarostat Mfg. Co., Inc.
Cornell-Dubilier Electric Corp.
Daven Co., The
Electro-Measurements Inc.
Electro-Tech Equipment Co.
Epic, Inc.
Fletcher Mfg. Co., Inc., The
Freed Transformer Co. Inc.
Industrial Instruments Inc.
Julie Research Labs., Inc.
Leeds & Northrup Co.
Minneapolis-Honeywell Regulator Co., Industrial Div.
Minneapolis-Honeywell Regulator Co., Industrial Product Group
New England Scientific Instruments Co.
Precise Development Corp.
Projects Unlimited Inc.
Shallcross Mfg. Co.
H. W. Sullivan Ltd.
Telectro Industries Corp.
Universal Mfg. Co., Inc.

DECADE VOLTAGE SUPPLIES
See VOLTAGE SUPPLIES, DECADE

DECALCOMANIAS

Adept Industries Inc.
W. H. Brady Co.
Duralith Corp.
Landsverk Electrometer Co., The
Meyercord Co.
Minnesota Mining & Mfg. Co.
New England Etching & Plating Co., Inc.
D. A. Schultz Co.
Scioto Sign Co.
Topflight Corp.
E. F. Twomey Co., Inc.

DECODERS

ACF Industries Inc.
Applied Science Corp. of Princeton
Babcock Radio Engrg., Inc.
Bendix Aviation Corp., York Div.
CGS Labs., Inc.
Di-An Controls, Inc.
Electro Instruments, Inc.
Electronic Communications, Inc.
Electronic Engrg. Co. of California
Elgin Micronics Div.-Elgin National Watch Co.
Haller, Raymond & Brown Inc. Div., Singer Mfg. Co.
***A. W. HAYDON CO., THE**
Litton Industries, Maryland Div.
Minneapolis-Honeywell Regulator Co.-Davies Labs. Div.
Motorola Inc., Military Electronics Div.
Philco Corp., Government & Industrial Div.
Radiation, Inc.
Telectro Industries Corp.
Tele-Dynamics Inc.
Vitro Labs.
Wang Labs., Inc.
Webcor, Inc., Government Div.
Wright Engrg. Co.

DEFLECTOR, PADS & TUBES, BLAST
See BLAST DEFLECTOR, PADS & TUBES

DEFLECTION YOKES
See YOKES, DEFLECTION

DEHUMIDIFIERS

Accessory Controls & Equipment Corp.
Aluminum Co. of America
American Aeroparts
Associated Engineers, Inc.
Barium & Chemicals, Inc.
Bulow Electric Co.
Dampp-Chaser, Inc.
Desomatic Products, Inc.
Drayer-Hanson Div., National-U. S. Radiator Corp.
Driaire, Inc.
Dryomatic Corp.
Eastern Industries Inc.
Ellis & Watts Products, Inc.

International Radiant Corp.
Kahn & Co., Inc.
Lear, Inc.
Marlo Coil Co.
***MIRAX CHEMICAL PRODUCTS CORP., METAL CONTAINER DIV.**
Missimers Inc.
Pioneer Industries Div., Almar-York Co., Inc.
Surface Combustion Corp.
United States Dynamics Corp.
Universal Dynamics Corp.
Waldorf Electronics Div.-F. C. Huyck & Sons
Wenzlau Engrg. Co.
Winder Aircraft Corp. of Florida

DEHYDRATING AGENTS

American Aeroparts
Associated Engineers, Inc.
Barium & Chemicals, Inc.
Bowser, Inc., Defense Dept.
Chandler Evans Corp.
Delta Chemical Works, Inc.
Desomatic Products, Inc.
Driaire, Inc.
Fisher Scientific Co.
Lithium Corp. of America, Inc.
Metal Hydrides Inc.
Robbins Aviation, Inc.
Universal Dynamics Corp.

DEHYDRATOR PLUGS

American Aeroparts
Associated Engineers, Inc.
Chandler Evans Corp.
Driaire, Inc.
Lear, Inc., Grand Rapids Div.
Robbins Aviation, Inc.
Universal Dynamics Corp.

DEHYDRATORS, AUTOMATIC

American Aeroparts
Applied Dynamics Corp.
Associated Engineers, Inc.
Bowser, Inc., Defense Dept.
Cincinnati Cleaning & Finishing Machinery
Cornelius Co., The, Aero Div.
Desomatic Products, Inc.
Driaire, Inc.
Dryomatic Corp.
Eastern Industries Inc.
Kahn & Co., Inc.
Walter Kidde & Co., Inc., Aviation Div.
Lear, Inc.
Lear, Inc., Grand Rapids Div.
Lear, Inc., Lear-Romec Div.
Robbins Aviation, Inc.
Selas Corp. of America
Universal Dynamics Corp.

DEHYDRATORS, OXYGEN EQUIPMENT

Aro Equipment Corp.
Associated Engineers, Inc.
Bowser, Inc., Defense Dept.
Desomatic Products, Inc.
Lear, Inc.
Mueller Brass Co.
Robbins Aviation, Inc.
Universal Dynamics Corp.

DELAY LINES

a. Computer
b. Digital
c. Distributed-Constant Fixed
d. Distributed-Constant Variable
e. Lumped-Constant Fixed
f. Lumped-Constant Variable
g. Measurement & Test
h. Printed Circuit

AMP Inc., **a thru f.**
Acton Labs. Inc., g.
Adept Industries Inc., h.
Ad-Yu Electronics Lab., Inc., **c thru g.**
Aeronca Mfg. Corp., Baltimore Facility, d, f.
Aeronutronic Systems, Inc., Sub.-Ford Motor Co., a, b.
Airtronics International Corp., c, e.
Alden Products Co., a.
Andersen Labs., a, e.
Bel Fuse Inc., a, c, d, h.
Richard D. Brew & Co., Inc., **a thru h.**
Burnell & Co., Inc., e, h.
Cambridge Thermionic Corp., e, f.
Columbia Technical Corp., a, b, c, e.
Computer Control Co., Inc., b.
Cornell-Dubilier Electric Corp.
Corning Glass Works
Curtiss-Wright Corp., Electronics Div.
Data-Control Systems, Inc.
Daven Co., The, c, e.
Di-An Controls, Inc., b.
Dietz Design & Mfg. Co., **a thru h.**
Donner Scientific Co., a, d.
Dresser Industries, Inc., **a thru f.**
ESC Corp., **a thru h.**
Ferranti Electric Inc., a, b, c.
Filtron Co., Inc., **a thru f.**
Forbes & Wagner, Inc., a, c, e.
Foto-Video Labs., Inc., e.
Fugle-Miller Labs. Inc., c, e.
Geotronic Labs. Inc., a, e, f, g.
Gudeman Co. of California, Inc., The, Monrovia Div., c, e.
Helipot Div.-Beckman Instruments Inc., d.
Hewlett-Packard Co., b.
Instruments for Industry, Inc., g.
JFD Electronics Corp., a, b, c, e.
Kay Electric Co., g.
La Pointe Industries Inc., h.
Librascope Inc., a.
Litton Industries, U. S. Engrg. Co., Div., e.
Monogram Precision Industries, d, f.
Motorola Inc., Military Electronics Div., **a thru f, h.**
NYT Electronics, Inc., a, b, c, e, g, h.
Navigation Computer Corp., b.
Orbitran Co., Inc., a, e, g.
PCA Electronics Inc., **c thru f.**
***PACKARD-BELL ELECTRONICS CORP., a thru f, h.**
Ralph M. Parsons Co., The, Electronics Div., **a, c thru g.**
Penn Keystone Corp., h.
Philco Corp., Government & Industrial Div., a, b, h.
Precision Circuits, Inc., h.
Redman Electronics Corp., a, b, e.
Shallcross Mfg. Co., **a thru f.**
Southwestern Industrial Electronics Co., **a thru h.**
Technitrol Engrg. Co., **a thru f, g.**
Technology Instrument Corp., g.
Telectro Industries Corp., a, b, **e thru h.**
Tobe Deutschmann Corp., a, e, h.
Transistor Electronics Corp., a.
Transonic, Inc., e.
Tucson Instrument Corp., c, e.
Vanguard Electronics Co., c, e, f.
Vitro Labs., b.
Wang Labs., Inc., b.
Wheeler Electronic Corp., Sub.-Sperry Rand Corp., e.

DELAY NETWORKS

Airtronics International Corp.
American Bosch Arma Corp.
Andersen Labs.
Burnell & Co., Inc.
Daven Co., The
Dietz Design & Mfg. Co.
Double E Products Co.
Dresser Industries, Inc.
ESC Corp.
General Electric Co., Apparatus Sales Div.
Geotronic Labs. Inc.
JFD Electronics Corp.
Miratel, Inc.
Motorola Inc., Military Electronics Div.
NYT Electronics, Inc.
Navigation Computer Corp.
Networks Electronic Corp.
Orbitran Co., Inc.
***PACKARD-BELL ELECTRONICS CORP.**
Ralph M. Parsons Co., The, Electronics Div.
Philco Corp., Government & Industrial Div.
Servomechanisms, Inc.
Shallcross Mfg. Co.
Telectro Industries Corp.
Tobe Deutschmann Corp.
Vanguard Electronics Co.

DEMAGNETIZERS

R. B. Annis Co.
Bearing Inspection, Inc.
Coils-Electronics
General Electric Co., Apparatus Sales Div.
Green Rectifier Co.
Ideal Industries, Inc.
Kahn & Co., Inc.
Kinevox Div.-Electromation Co.
Magnaflux Corp.
Modelectric Products Corp.
Projects Unlimited Inc.
Robins Industries Corp.
Taft-Peirce Mfg. Co., The
Telectro Industries Corp.

DEMINERALIZERS & STILLS
See STILLS & DEMINERALIZERS

DEMODULATORS, COMPUTER

Airpax Electronics Inc. Seminole Div.
Andersen Labs.
Consolidated Diesel Electric Corp.
Lear, Inc.
Magnetic Research Corp.
Motorola Inc., Military Electronics Div.
Ohio Semiconductors, Inc.
Radiation, Inc.
Servomechanisms, Inc.
Solartron Inc.
Sperry Farragut Co., Div.-Sperry Rand Corp.
Telectro Industries Corp.
Tempo Instrument Inc.

DENSITOMETERS, ELECTRONIC

Applied Research Labs., Inc.
Cooper Development Corp., Sub.-Marquardt Aircraft Co.
Edgerton, Germeshausen & Grier, Inc.
NRC Equipment Corp.
National Spectrographic Labs., Inc.
Photobell Co., Inc.
Photovolt Corp.
Potter Aeronautical Corp.
Weston Instruments, Div.-Daystrom, Inc.

DESTRUCTORS

Aerojet-General Corp.
Atlantic Research Corp.
Beckman & Whitley, Inc., Missile Products Div.
Edgerton, Germeshausen & Grier, Inc.
Elgin Micronics Div.-Elgin National Watch Co.
Ensign-Bickford Co., The
Fulton-Irgon Corp., The
Gabriel Co., The-Talco Engrg. Co. Div.
***MC CORMICK SELPH ASSOCIATES**
Olin Mathieson Chemical Corp., Energy Div.
***PROPELLEX CHEMICAL DIV., CHROMALLOY CORP.**
Raymond Engrg. Lab., Inc.
Thiokol Chemical Corp., Hunter-Bristol Div.
Waltham Engrg. Corp.
Waste King Corp., Technical Products Div.

DESTRUCTORS & ASSOCIATED MECHANISMS

Aerojet-General Corp.
Aeronca Mfg. Corp.
American Machine & Foundry Co., Government Products Group
Atlantic Research Corp.
Beckman & Whitley, Inc., Missile Products Div.
Belock Instrument Corp.
Cooper Development Corp., Sub.-Marquardt Aircraft Co.
Edgerton, Germeshausen & Grier, Inc.
Ensign-Bickford Co., The
Horkey-Moore Associates
Land-Air Inc.
Lear, Inc.
***MC CORMICK SELPH ASSOCIATES**
Olin Mathieson Chemical Corp., Energy Div.
Patterson, Moos Div.-Universal Winding Co., Inc.
RS Electronics Corp.
Raymond Engrg. Lab., Inc.
Stanley Aviation Corp.
Thiokol Chemical Corp., Hunter-Bristol Div.
U. S. Industries, Inc.
Waltham Engrg. Corp.
Waste King Corp., Technical Products Div.
Western Gear Corp.

DETECTION SYSTEMS

American Machine & Foundry Co., Government Products Group
Anton Electronic Labs., Inc.
Bowser, Inc., Defense Dept.
Consolidated Electrodynamics Corp.
Dresser Industries, Inc.
Edgerton, Germeshausen & Grier, Inc.
Thomas A. Edison Ind. Instrument Div.-McGraw-Edison Co.
Fenwal Inc.
Fisher Scientific Co.
Goodyear Tire & Rubber Co., The, Aviation Products Div.
Land-Air Inc.
Litton Industries, Maryland Div.
Mine Safety Appliances Co.
Miratel, Inc.
Motorola Inc., Military Electronics Div.
Philco Corp., Government & Industrial Div.
Photobell Co., Inc.
Servomechanisms, Inc.
Stanley Aviation Corp.
Telectro Industries Corp.
U. S. Science Corp., Div.-Topp Industries, Inc.
Veeco Vacuum Corp.
Wintronics

DETECTORS

a. Crack
b. Crystal
c. Detonation
d. Explosive Gas
e. Flaw & Defect, Electronic
f. Impedance
g. Leak
h. Magnetic
i. Metal, Electronic
j. Monoxide
k. Null
l. Null, RF
m. Radiation
n. Radiation, Nuclear
o. Resistance
p. Scintillation
q. Smoke
r. Standing Wave
s. Vibration
t. Voltage
u. Water Leak

Acromag Inc., h.
Advanced Electronics, Inc., s.
Airborne Instruments Lab., Div.-Cutler-Hammer, Inc., m.
Aircom Inc., r.
Aircom Inc. of New Jersey, r.
***AIRESEARCH MFG. CO. OF ARIZ.**
Airpax Electronics Inc. Seminole Div., h.
Allis-Chalmers, i.
American Aeroparts, s.
American Electronics, Inc., g, m, n, p.
American Electronics, Inc., American Nuclear Div., g, n, p.

American Electronics, Inc., Taller & Cooper Div., d, j.
American Research & Mfg. Corp., k, s.
R. B. Annis Co., h.
Antenna & Radome Research Associates, b.
Anton Electronic Labs., Inc., m, n, t.
***ARNOUX CORP.**, a.
Associated Engineers, Inc., q.
Associated Research, Inc., a, t.
Atlantic Research Corp., c.
Baird-Atomic, Inc., d, m, n, p.
Barber-Colman Co., k.
Bearing Inspection, Inc., e.
Beva Lab., Inc., p.
Branson Instruments, Inc., a, e.
E. W. Brilmayer Labs., Inc., i.
Budd Stanley Co. Inc., r.
California Technical Industries, Div.-Textron Inc., r.
Consolidated Electrodynamics Corp., g, s.
Curtiss-Wright Corp., Electronics Div., n.
Curtiss-Wright Corp., Princeton Div., e.
Curtiss-Wright Corp., Research Div., a, g.
Davenport Mfg. Co., t.
Davis Instruments, d, g.
Delsen Corp., e.
Demornay-Bonardi, b, r.
Device Development Corp., h.
J. W. Dice Co., a, e, h, i.
Douglas Microwave Co., Inc., b.
Dresser Industries, Inc., c, h, n, s.
Dytronics Co., u.
Eastman Kodak Co., m, n.
Edgerton, Germeshausen & Grier, Inc., c, n.
Thomas A. Edison Ind. Instrument Div.-McGraw-Edison Co., k, a.
Electro Products Laboratories, Inc., i, s.
Electro-Measurements Inc., k.
Electronic Control Corp., e, i, q.
Electro-Tech Equipment Co., g.
Elgin Micronics, West Coast Div.-Elgin National Watch Co., m, n.
Epic, Inc., s.
Eppley Laboratory, Inc., The, m.
Era Engrg. Inc., n.
FXR, Inc., f, r.
Fenwal Inc., d.
Ferrotran Electronics Co., Inc., t.
Fisher Research Lab., Inc., i, n, p, u.
Fisher Scientific Co., g.
Freed Transformer Co. Inc., k.
Gas Appliance Stores, Inc., g.
General Electric Co., Apparatus Sales Div., g, n, t.
General Electric Co., X-Ray Dept., m, n, p.
General Electrodynamics Corp., m.
General Scientific Equipment Co., d, f, q.
John Gombos Co., Inc., r.
Gulton Industries, Inc., e, s.
Hamilton Standard, Div.-United Aircraft Corp., t.
Hewlett-Packard Co., l, r.
High Voltage Engrg. Corp., a.
E. Vernon Hill & Co., g.
Hoffman Electronics Corp., Semiconductor Div., d, l, q.
Hoffman Labs. Div., Hoffman Electronics Corp., m.
ITT Labs.-Ft. Wayne, l, m, n.
Industrial Test Equipment Co., k.
Infrared Industries Inc., m.
Instruments Div.-Philips Electronics, Inc., m, p.
International Research & Development Corp., s.
Jansky & Bailey, Inc., e, l, m.
Johnson-Williams, Inc., d.
Land-Air Inc., m, n, p, s.
Leeds & Northrup Co., k, a, t.
Levinthal Electronic Products, Inc., p.
Lieco, Inc., b.
Lisle Corp., h.
MB Mfg. Co., s.
Magnaflux Corp., a, e, g, h, i, u.
Magnetic Instrument Co. Inc., m, n, p.
Jas. P. Marsh Corp., g, u.
Menlo Research Lab., a, b, g, m, n, p, u.
Meridian Metalcraft, Inc., b, l, r.
Micrometrical Mfg. Co., s.
Microwave Associates, Inc., b, r.
Millitest Corp., k.
Mine Safety Appliances Co., d, g, j.
Minneapolis-Honeywell Regulator Co., Aeronautical Div., d, j, q.
Minneapolis-Honeywell Regulator Co., Boston Div., k.
Minneapolis-Honeywell Regulator Co., Industrial Div., k, m.
Minneapolis-Honeywell Regulator Co., Industrial Product Group, k, a, t.
Minneapolis-Honeywell Regulator Co., Ordnance Div., q.
Motorola Inc., Military Electronics Div., b, l.
NRC Equipment Corp., g.
Narda Microwave Corp., The, b.
National Research Corp., g.
National Ultrasonic Corp., e.
Newbrook Machine Corp., a.
North Atlantic Industries, Inc., k.
Nuclear Corp. of America, n, p.
Nuclear-Chicago Corp., m, n, p.
Ohio Semiconductors, Inc., h.
Omega Labs., Inc., r.
Optimized Devices, Inc., t.
Patterson, Moos Div.-Universal Winding Co., Inc., d, m, n, p.
Penn Keystone Corp., t.
Perkin-Elmer Corp., g, m.
Peschel Electronics, Inc., e, o, t.
Photobell Co., Inc., e, q.
Photomation, Inc., q.
Pilot Chemicals, Inc., p.
Potter Aeronautical Corp., g, u.
Precise Development Corp., p.
Radar Design Corp., b, l.
Radiation Instrument Development Lab., Inc., n, p.
Rinco, Inc., k.
Sage Labs., Inc., b.
St. John X-Ray Lab., m, n.
Scientific-Atlanta, Inc., b, l, r.
H. H. Scott, Inc., k, s.
Servomechanisms, Inc., k.
Shallcross Mfg. Co., k, o.
Simpson Electric Co., k.
Special Projects Lab., Food Machinery & Chemical Corp., g.
Specialty Engrg. & Electronics Co., d, j, m, n.
Sperry Microwave Electronics Co., Div.-Sperry Rand Corp., f, r.
Sperry Products, Inc., a, e.
Stanley Aviation Corp., n, p.
Strand Engrg. Co., n.
Tel-Instrument Electronics Corp.
Telonic Industries, Inc., b, l.
Thiokol Chemical Corp., d, i.
Turco Products, Inc., a, g, u.
Twenty-First Century Electronics, Inc., e, h, n.
U. S. Industries, Inc., m.
Vacuum Tube Products, Div.-Hughes Aircraft Co., g.
Varian Associates, g, h.
Veeco Vacuum Corp., g.
Victor R. F. & Microwave Co., r.
Waveline, Inc., r.
Weinschel Engrg., b, f, k, r.
Weston Instruments, Div.-Daystrom, Inc., e.
Wheeler Laboratories, Inc., b.
Worner Electronic Devices, q.

DEVELOPERS, CHEMICAL

Bios Labs., Inc.
E. I. Du Pont de Nemours & Co. Inc.
Eastman Kodak Co.
Electronic Tube Corp.
General Electric Co., X-Ray Dept.
Gordon Enterprises
Matheson Co., Inc., The
National Spectrographic Labs., Inc.
Turco Products, Inc.

DIAGNOSTIC EQUIPMENT-COMPUTER

American Machine & Foundry Co., Government Products Group
Di-An Controls, Inc.
General Electric Co., Computer Dept.
Land-Air Inc.
Motorola Inc., Military Electronics Div.
***PACKARD-BELL ELECTRONICS CORP.**
Philco Corp., Government & Industrial Div.
Transistor Electronics Corp.
Vitro Labs.

DIAL ACCESS TABS
See TABS, DIAL ACCESS

DIAL CRYSTALS

Homalite Corp., The
Lancaster Glass Corp.
Jas. P. Marsh Corp.
Sterling Glass Corp.
Sun Electric Corp., Aeronautical Div.
Waterbury Companies, Inc.
Zenith Optical Laboratory

DIAL DRIVE BELTS
See BELTS, DIAL DRIVE

DIAL POINTERS
See POINTERS, DIAL

DIALS

Ackerman Engravers, Inc.
Acromark Co., The
Adept Industries Inc.
Allied Plastics Supply Corp.
Amerac Inc.
Atlas Precision Products, Co.
Birnbach Radio Co., Inc.
Borg Equipment Div., Amphenol-Borg Electronics Corp.
W. H. Brady Co.
Canadian Radium & Uranium Corp.
Carmody Corp.
Conn-Craft Co.
Croname Inc.
Henry G. Dietz Co., Inc.
Duralith Corp.
Electrical Insulation Co., Inc.
Eljay Corp.
Emeloid Co., Inc., The
Emerson Plastics Corp.
Etched Products Corp.
General Communication Co.
Helipot Div.-Beckman Instruments Inc.
Homalite Corp., The
Industrial Engravers, Inc.
E. F. Johnson Co.
Jas. P. Marsh Corp.
Maryland Etching Co. Inc.
Mica Insulator Div.-Minnesota Mining & Mfg., Co.
Miller Dial & Nameplate Co.
New England Etching & Plating Co., Inc.
North Electric Co.
PIC Design Corp., Sub.-Benrus Watch Co., Inc.
Panel Engrg. Corp.
Park Nameplate Co., Inc.
Plasteck, Inc.
Q-Circuits, Div.-Etching Co. of Calif.
Scientific Instrument Co.
Servomechanisms, Inc., Mechatrol Div.
Sterling Glass Corp.
Sun Dial Corp.
Sun Electric Corp., Aeronautical Div.
Technology Instrument Corp.
Teiner Engrg. Corp.
United States Radium Corp.
Vemaline Products Co.
Virginia Plak Co.
Waldom Electronics Inc.
Wilks Precision Instrument Co., Inc.

DIALS, COMPLETE

Ackerman Engravers, Inc.
Acromark Co., The
Adept Industries Inc.
Atlas Precision Products, Co.
Borg Equipment Div., Amphenol-Borg Electronics Corp.
Canadian Radium & Uranium Corp.
Carmody Corp.
Dayton Aviation Radio & Equipment Corp.
Electrical Insulation Co., Inc.
Eljay Corp.
Etched Products Corp.
Helipot Div.-Beckman Instruments Inc.
Homalite Corp., The
E. F. Johnson Co.
Jas. P. Marsh Corp.
Maryland Etching Co. Inc.
Miller Dial & Nameplate Co.
New England Etching & Plating Co., Inc.
North Electric Co.
Pic Design Corp., Sub.-Benrus Watch Co., Inc.
Panel Engrg. Corp.
Scientific Instrument Co.
Servomechanisms, Inc., Mechatrol Div.
Sun Dial Corp.
Sun Electric Corp., Aeronautical Div.
Theta Instrument Corp.
Vemaline Products Co.
Waldom Electronics Inc.
Waterbury Companies, Inc.
Wilks Precision Instrument Co., Inc.

DIALS, INSTRUMENT

Ackerman Engravers, Inc.
Adept Industries Inc.
Aero Gasket Corp.
Aerolite Electronics Corp.
Atlas Precision Products, Co.
Borg Equipment Div., Amphenol-Borg Electronics Corp.
Carmody Corp.
Croname Inc.
Duralith Corp.
Electrical Insulation Co., Inc.
Eljay Corp.
Emeloid Co., Inc., The
Etched Products Corp.
Graflex Inc.
Helipot Div.-Beckman Instruments Inc.
Homalite Corp., The
Industrial Engravers, Inc.
E. F. Johnson Co.,
Kerrco Products
Jas. P. Marsh Corp.
Miller Dial & Nameplate Co.
New England Etching & Plating Co., Inc.
North Electric Co.
PIC Design Corp., Sub.-Benrus Watch Co., Inc.
Panel Engrg. Corp.
Plasteck, Inc.
Reeves Instrument Corp.
Scientific Instrument Co.
Servomechanisms, Inc., Mechatrol Div.
Smith-Morris Corp.
Sterling Glass Corp.
Sun Dial Corp.
Teiner Engrg. Corp.
Theta Instrument Corp.
United States Radium Corp.
Vemaline Products Co.
Waldom Electronics Inc.
Wilks Precision Instrument Co., Inc.

DIAMOND NEEDLES
See NEEDLES, DIAMOND

DIAPHRAGMS, JET ENGINE

Aero Gasket Corp.
Anchor Metal Spinning Co., The
Bellofram Corp.
Chicago Rawhide Mfg. Co.
Chicago-Allis Mfg. Corp.
Curtiss-Wright Corp.-Wright Aeronautical Div.

Diversey Engrg. Co.
Dresser Mfg. Div., Dresser Industries, Inc.
Haveg Industries, Inc.
Joclin Mfg. Co.
C. B. Kaupp & Sons, Inc.
Kelsey-Hayes Co.
Kolcast Industries-Div. Thompson-Ramo-Wooldridge Inc.
Mercury Tool & Mfg. Corp.
Portland Copper & Tank Works Inc.
***RHEEM MFG. CO., DEFENSE & TECHNICAL PRODUCTS DIV.**
Ryan Aeronautical Co.
Smith-Morris Corp.
Solar Aircraft Co.
Tapco Group, Thompson-Ramo-Wooldridge Inc.
Turbo Products, Inc.
United States Rubber Co.
Waltham Engrg. Corp.
Westinghouse Electric Corp.
Wilks Precision Instrument Co., Inc.
Zallea Brothers

DIAPHRAGMS, JET ENGINE NOZZLE

Aerolab Development Co.
Badger Die Casting Corp.
Christie Machine Works
Curtiss-Wright Corp.-Wright Aeronautical Div.
Diversey Engrg. Co.
Dresser Mfg. Div., Dresser Industries, Inc.
Gordon Enterprises
Haveg Industries, Inc.
Jarvis Corp.
Joclin Mfg. Co.
Kolcast Industries-Div. Thompson-Ramo-Wooldridge Inc.
Lee Co., The
Mercury Tool & Mfg. Corp.
Portland Copper & Tank Works Inc.
***RHEEM MFG. CO., DEFENSE & TECHNICAL PRODUCTS DIV.**
Ryan Aeronautical Co.
Schellens-True Corp.
Smith-Morris Corp.
Solar Aircraft Co.
Tapco Group, Thompson-Ramo-Wooldridge Inc.
Teiner Engrg. Corp.
Turbo Products, Inc.
Twigg Industries
United States Rubber Co.
Waltham Engrg. Corp.
Westinghouse Electric Corp.
Wilks Precision Instrument Co., Inc.

DIE CASTINGS

Aluminum Co. of America
American Aeroparts
Anchor Metal Co. Inc.
Belmont Smelting & Refining Works, Inc.
Bendix Foundries, Bendix Aviation Corp.
Bridgeport Brass Co.
Curtiss-Wright Corp.-Wright Aeronautical Div.
Division Lead Co.
Doehler-Jarvis Div., National Lead Co.
Dow Chemical Co., The
Electric Auto-Lite Co., The
Hydro Molding Co., Inc.
Konarr Corp.
Minneapolis-Honeywell Regulator Co., Ordnance Div.
Minnesota Mining & Mfg. Co.
National Pneumatic Co., Inc., Holtzer-Cabot Divs.
Milton Ross Metals Co., The
Stanley-Judd Div.-The Stanley Works
Wayne Pump Co., The, Div.-Symington Wayne Corp.

DIELECTRIC HEATING EQUIPMENT

Astravac Corp.
Erdco Engrg. Corp.
Firth Sterling Inc.
Furane Plastics, Inc.
General Electrodynamics Corp.
Induction Heating Corp.
Integrated Mica Corp.
Reeve Electronics, Inc.
Resdel Engrg. Corp.
Sherman Industrial Electronics, Div.-Engrg. Design Inc.
Telectro Industries Corp.
Westinghouse Electric Corp.
Young Brothers Co.

DIES

ACF Industries Inc.
Abalon Precision Mfg. Corp.
Accurate Electronics Corp., Dept. D
Acromark Co., The
Amatom Electronic Hardware Co. Inc.
American Car & Foundry, Div.-ACF Industries, Inc.
Bergen Carbide Co.
E. W. Bliss Co.
Brown Engrg. Co., Inc.
California Spring Co., Inc.
Capital City Mfg. Co.
Clark-Aiken Co., The
East Dayton Tool & Die Co., The
Electro-Mechanical Products Co.
Forsberg Mfg., Co., The
Furane Plastics, Inc.
GAR Mfg. Corp.
Greenfield Tap & Die, Div.-United-Greenfield Corp.
Lemert Engrg. Co., Inc.
Mercury Tool & Mfg. Corp.
Metal Carbides Corp.
Metal-Glass Products Co.
J. I. Morris Co.
O'Neil-Irwin Mfg. Co.
Milton Ross Metals Co., The
Sheffield Corp., The, Sub.-Bendix Aviation Corp.
C. Sjoberg & Son
A. O. Smith Corp.
Squiers Gage Co.
Teiner Engrg. Corp.
Therm, Inc.
Thermal Refractories Corp.
Wales Strippit Inc., Unit of Houdaille Industries, Inc.
Wayne Foundry & Stamping Co.
Wellman Bronze & Aluminum Co.
Western Tool & Mfg. Co., The
Wilks Precision Instrument Co., Inc.

DIFFERENTIAL PRESSURE FLOWMETERS
See FLOWMETERS, DIFFERENTIAL PRESSURE

DIFFUSERS, GAS TURBINE ENGINE

Curtiss-Wright Corp., Research Div.
Ingersoll Kalamazoo Div., Borg-Warner Corp.
Kaiser Aircraft & Electronics, Div.-Kaiser Industries Corp.
***RHEEM MFG. CO., DEFENSE & TECHNICAL PRODUCTS DIV.**
Ryan Aeronautical Co.
Smith-Morris Corp.
Solar Aircraft Co.
Tapco Group, Thompson-Ramo-Wooldridge Inc.
Teiner Engrg. Corp.
Thermal Refractories Corp.
Turbo Products, Inc.
Westinghouse Electric Corp.

DIODES
a. Crystal
b. Germanium
c. Microwave Mixer
d. Silicon
e. Silicon Power

American Elite, Inc., b.
Audio Devices, Inc.-Rectifier Div., d.
Bendix Aviation Corp.-Semiconductor Products, Red Bank Div., e.
Bogue Electric Mfg., Co., d.
Bradley Semiconductor Corp., a, d, e.
CBS-Hytron, Div.-Columbia Broadcasting System, Inc., b, c, d.
Clevite Transistor Products, Div.-Clevite Corp., a, b, d.
Columbus Electronics Corp., d, e.
Eitel-McCullough, Inc.
Erie Resistor Corp., b, d.
Ferranti Electric Inc., d, e.
Finney Co., The, a, b, d.
Gahagan Inc., a, b, c.
Genalex Div.-British Industries Corp., a thru e.
General Transistor Corp., b.
Green Rectifier Co.
Hoffman Electronics Corp., Semiconductor Div., c, d, e.
Hughes Aircraft Co., b, d.
International Rectifier Corp., d, e.
International Research Associates, e.
International Resistance Co.
Kemtron Electron Products Inc., a thru e.
Microwave Associates, Inc., a, c, d.
Minneapolis-Honeywell Regulator Co., Ordnance Div., b.
Motorola Inc., Military Electronics Div., a thru e.
Narda Microwave Corp., The, c.
North American Electronics Inc., d, e.
Pacific Semiconductors, Inc., d, e.
Philco Corp., Government & Industrial Div., a thru e.
Philco Corp., Lansdale Tube Co. Div, b, c, d.
Qutronic Semi Conductor Corp., a, b, d.
Raytheon Mfg. Co., a, b, d, e.
Sequoia Wire & Cable Co., Div.-Mandrel Industries, Inc., d.
Shockley Transistor Corp., d.
Silicon Transistor Corp., d.
Sperry Semiconductor Div., Sperry Rand Corp., d, e.
Sylvania Electric Products Inc., Semiconductor Div., a thru d.
Syntron Co., d, e.
Technical Apparatus Builders, b, d, e.
Transitron Electronic Corp., b, d, e.
U. S. Science Corp., Div.-Topp Industries, Inc., d.
U. S. Semiconductor Products, Inc., d.
United States Dynamics Corp., a, b, d, e.
Warren Components, Div. El-Tronics, Inc., b.
Wesrep Corp., d.
Westinghouse Electric Corp., a thru e.

DIRECTION FINDERS

Aetna Electronics Corp.
Allied International Co.
***AVCO MFG. CORP., CROSLEY DIV.**
Bendix Radio Div., Bendix Aviation Corp.
Centronix Inc.
Collins Radio Co.
Dayton Aviation Radio & Equipment Corp.
Emerson Radio & Phonograph Corp.
General Devices, Inc.
ITT Federal Div., International Telephone & Telegraph Corp.
ITT Labs.
Jansky & Bailey, Inc.
***KEARFOTT CO., INC.**
Lane Electronics Mfg. Corp.
Lear, Inc.
Lear, Inc., Grand Rapids Div.
Litton Industries, Maryland Div.
Magnavox Co., The
W. L. Maxson Corp., The
Motorola Inc., Military Electronics Div.
Munston Mfg. & Service, Inc.
National Pneumatic Co., Inc., Holtzer-Cabot Divs.
Philco Corp., Government & Industrial Div.
Precise Development Corp.
Raytheon Mfg. Co.
Raytheon Mfg. Co., Government Equipment Div.
Robot Industries Inc.
Royal Industries, Inc.
Ryan Aeronautical Co.
Servo Corp. of America
Sperry Piedmont Co. - Div.-Sperry Rand Corp.
Telectro Industries Corp.
U. S. Science Corp., Div.-Topp Industries, Inc.
Waldorf Electronics, Div.-F. C. Huyck & Sons
Webcor, Inc., Government Div.

DIRECTION FINDERS, RADIO
See RADIO DIRECTION FINDERS

DISCHARGE EQUIPMENT, LOW TEMPERATURE

Edw. Renneburg & Sons Co.

DISCHARGERS, STATIC

American Aeroparts
Best Aircraft Corp.
Goodyear Tire & Rubber Co., The, Aviation Products Div.

DISCONNECTS, CONTROL SYSTEMS

Aeratec Corp., The
Alden Products Co.
Anton Electronic Labs., Inc.
Arrow-Hart & Hegeman Electric Co., The
Assembly Products, Inc.
Carmec Aviation
Components Corp.
Dresser Mfg. Div., Dresser Industries, Inc.
General Electric Co., Apparatus Sales Div.
Hydromatics, Inc.
Integral Corp.
Lundy Mfg. Corp.
On Mark Couplings, Inc.
Pyle-National Co., The
Reinhold Engrg. & Plastics Co.
Stanley Aviation Corp.
Western Gear Corp.

DISCONNECTS, IGNITION SYSTEMS

Alden Products Co.
Anton Electronic Labs., Inc.
Auburn Spark Plug Co., Inc.
Cole-Hersee Co.
Dresser Mfg. Div., Dresser Industries, Inc.
Hallett Mfg., Co.
Litton Industries, Inc.
J. E. Menough Co.
On Mark Couplings, Inc.
Rochester Mfg. Co. Inc.
Stanley Aviation Corp.

DISCRIMINATORS

Amelco, Inc.
Barker & Williamson Inc.
Bell & Gossett Co.
Bendix-Pacific Div., Bendix Aviation Corp.
Beva Lab., Inc.
Brush Instruments, Div.-Clevite Corp.
Centronix Inc.
Collins Radio Co.
Data-Control Systems, Inc.
Electro-Mechanical Research, Inc.
FXR, Inc.
Freed Transformer Co. Inc.
Hallamore Electronics Co.
Lear, Inc.
Lear, Inc., Grand Rapids Div.
W. L. Maxson Corp., The
Meridian Metalcraft, Inc.
Minneapolis-Honeywell Regulator Co.-Davies Labs. Div.
Motorola Inc., Military Electronics Div.
National Pneumatic Co., Inc., Holtzer-Cabot Divs.
Optimized Devices, Inc.
Portchester Instrument Corp.
Systron Corp.
Telectro Industries Corp.
Transonic, Inc.

DISCS, COMPUTER

Adept Industries Inc.
Emeloid Co., Inc., The
Monogram Precision Industries
Telectro Industries Corp.
United States Chemical Milling Corp.

DISSIPATORS, HEAT

Bud Radio Inc.

Eitel-McCullough, Inc.
Metal Textile Corp., Electronics Div.
Minnesota Mining & Mfg. Co.
National Beryllia Corp.
Edw. Renneburg & Sons Co.
Staver Co., Inc., The
Thompson Engrg. Co., The, Missile Products Div.
Tranter Mfg., Inc.
United Aircraft Products, Inc.

DISTANCE MEASURING EQUIPMENT

***AVCO MFG. CORP., CROSLEY DIV.**
Avien, Inc.
Beaver Precision Products Inc.
Bendix Radio Div., Bendix Aviation Corp.
Benson-Lehner Corp.
Collins Radio Co.
Communications Research Co.
Dorsett Labs., Inc.
Ferranti Electric Inc.
Ford Instrument Co., Div.-Sperry Rand Corp.
General Precision Lab. Inc.
Hazeltine Electronics Div.-Hazeltine Corp.
Land-Air Inc.
Lear, Inc.
Litton Industries, Maryland Div.
Minneapolis-Honeywell Regulator Co., Aeronautical Div.
Motorola Inc., Military Electronics Div.
Northrop Corp., The, Nortronics Div.
Ralph M. Parsons Co., The, Electronics Div.
Radiation, Inc.
Ryan Aeronautical Co.

DISTRIBUTORS, FUEL

American Bosch Arma Corp.
***BENDIX AVIATION CORP., HAMILTON DIV.**
***BENDIX PRODUCTS DIV., BENDIX AVIATION CORP.**
Chandler Evans Corp.
Dresser Mfg. Div., Dresser Industries, Inc.
Korda Industries
United Aircraft Products, Inc.

DISTRIBUTORS, IGNITION

Electric Auto-Lite Co., The
Gordon Enterprises
Hallett Mfg., Co.

DOLLIES

Acco Equipment Div., American Chain & Cable Co., Inc.
Air Logistics Corp.
American Machine & Foundry Co., Government Products Group
American Machine & Foundry Co., Greenwich
Anchor Metal Spinning Co., The
Arnolt Corp.
Associated Engineers, Inc.
Bil-Jax Inc.
Blowers Inc.
Bowser, Inc., Defense Dept.
Brooks & Perkins, Inc.
Capital City Mfg. Co.
Albert H. Cayne Equipment Corp.
Champion Co., The
C. B. Christiansen Co.
Cleveland Pneumatic Industries, Inc.
Colonial Aircraft Corp.
Colson Corp., The
Columbia Research & Development Corp.
Consolidated Diesel Electric Corp.
Consolidated Diesel Electric Corp., Western Div.
Continental Technical Service, Inc.
Crane Carrier Corp.
Cramer Mfg. & Engrg., Inc.
Eidal Mfg. Co., Inc.
FWD Corp.
Fairbanks Co., The
Gremco, Inc.
Ludwig Honold Mfg. Co.
Hufford Corp., The
Industrial Tools Mfg. Corp., Sub.-Pendleton Tool Industries, Inc.
Machine Products Div., New Haven Trap Rock Co.
Magline Inc.
Marquardt Aircraft Co.
Mercury Tool & Mfg. Corp.
***MIRAX CHEMICAL PRODUCTS CORP., METAL CONTAINER DIV.**
Monogram Precision Industries
Opelika Welding, Machine & Supply Inc.
Ordnance Div.-Food Machinery & Chemical Corp.
Precision Sheet Metal, Inc.
R & R Engrg. Co.
Ravenna Metal Products, Div.-Standard Screw Co.
Red Lion Cabinet Co., Redco Tool Div.
Regent Jack Mfg. Co., Inc.
Roberts Industries Inc.
Royal Industries, Inc.
Santa Anita Engrg. Co.
Schaffer Air Industries, Inc.
Seamless Products Co., Inc.
Skyline Products, Inc.
Technical Service Corp.
Teiner Engrg. Corp.
Thiokol Chemical Corp.
Trailmobile Inc.
United Mfg. Co., The
United States Chemical Milling Corp.
Weaver Mfg. Co.
Welded Construction Inc.
Albert Wesling & Sons Inc.
Wheland Co., The
Wickfield, Inc.

DOMES, NAVIGATION
See NAVIGATION DOMES

DOSIMETERS

American Machine & Foundry Co., Government Products Group
***BAUSCH & LOMB OPTICAL CO.**
Cambridge Instrument Co., Inc.
Corning Glass Works
Eastman Kodak Co.
FXR, Inc.
General Electric Co., X-Ray Dept.
Land-Air Inc.
Menlo Research Lab.
Minnesota Mining & Mfg. Co.
Nuclear-Chicago Corp.
Patterson, Moos Div. - Universal Winding Co., Inc.
St. John X-Ray Lab.

DOWELS

Allen Mfg. Co.
Baldwin Mfg. Co. Inc., The
Capital City Mfg. Co.
Corbin Products Div.
***HARTFORD MACHINE SCREW CO., DIV.-STANDARD SCREW CO.**
Standard Pressed Steel Co.
Stanley-Judd Div.-The Stanley Works
Wilmington Fibre Specialty Co.

DRAFTING EQUIPMENT

Barber-Colman Co.
Dolgorukov Mfg. Co.
E-Z Way Templates
Emmert Mfg. Co.
Faber Pencil Co., Eberhard
Fisher & Crome
Gordon Enterprises
Joseph E. Podgor Co., Inc.
E. F. Twomey Co., Inc.
Universal Drafting Machine Corp.

DRAFTING PAPER

Pic Design Corp., Sub.-Benrus Watch Co., Inc.
Joseph E. Podgor Co., Inc.

DRIFTMETERS

Air Logistics Corp.
Ryan Aeronautical Co.

DRILL PRESSES

Barrett-Christie Co.
Beaver Precision Products Inc.
Burg Tool Mfg. Co., Inc.
Clausing Div.-Atlas Press Co.
Continental Technical Service, Inc.
High Speed Hammer Co., Inc., The
Carl Hirschmann Co., Inc.
Motch & Merryweather Machinery Co., The, Avey Div.
Joseph T. Ryerson & Son, Inc.
Sibley Machine & Foundry Corp.
Transmares Corp.
Veet Industries

DRILL PRESSES, PRECISION

Barrett-Christie Co.
Beaver Precision Products Inc.
Burg Tool Mfg. Co., Inc.
Burgmaster Corp.
Clausing Div.-Atlas Press Co.
High Speed Hammer Co., Inc., The
Carl Hirschmann Co., Inc.
Louis Levin & Son, Inc.
Mico Instrument Co.
Motch & Merryweather Machinery Co., The, Avey Div.
Transmares Corp.
Veet Industries

DRILLS, ELECTRIC

Barrett-Christie Co.
Black & Decker Mfg. Co., The
Chicago Pneumatic Tool Co.
Joseph T. Ryerson & Son, Inc.
Snap-On Tools Corp.
Stanley-Judd Div.-The Stanley Works
U. S. Electrical Tool Co.

DRILLS, HAND

Barrett-Christie Co.
Forsberg Mfg., Co., The
Gardner-Denver Co.
Joseph T. Ryerson & Son, Inc.
Stanley-Judd Div.-The Stanley Works

DRILLS, TWIST

Barrett-Christie Co.
Continental Drill Corp.
Greenfield Tap & Die, Div.-United-Greenfield Corp.
Louis Levin & Son, Inc.
New York Twist Drill Co., Inc.
Joseph T. Ryerson & Son, Inc.
Servwell Products Co.
Snap-On-Tools Corp.
Sphinx-American Co.
Stanley-Judd Div.-The Stanley Works

DRIVES
a. Hydraulic
b. Small Electric Drive Mechanisms
c. Tachometer
d. Torque Tube

Actuator Products Div., Geartronics Corp., c.
Adel Precision Products of California, Div.-General Metals Corp., a.
American Aeroparts, a, c.
American Bosch Arma Corp., a, b.
American Brake Shoe Co.
American Machine & Foundry Co., Government Products Group, a.
American Machine & Foundry Co., Greenwich, a, b, d.
American Measurement & Control, Inc., a
Ardmore Products, a.
Arnolt Corp., a.
Astronautics Engrg. Co., a.
Atlas Precision Products, Co., b.
***BENDIX AVIATION CORP., HAMILTON DIV., a.**
Bendix-Pacific Div., Bendix Aviation Corp., b.
Bendix Utica Div., Bendix Aviation Corp.
E. W. Bliss Co., a.
Breeze Corporations, Inc., b.
Cadillac Gage Co., a.
Capital City Mfg. Co., a.
Conoflow Corp., b.
Cornelius Co., The, Aero Div., a.
Crane Carrier Corp., a.
Curtiss-Wright Corp., Research Div., b.
Denison Engrg. Div., American Brake Shoe Co., a.
Eastern Industries Inc., a.
Electric Auto-Lite Co., The, a, b.
Electronic Communications, Inc., b.
Gabriel Co., The, Gabriel Electronics Div., b.
General Electric Co., Apparatus Sales Div., a, b, c.
Globe Industries, Inc., b, c.
Haskel Engrg. & Supply Co., a.
***A. W. HAYDON CO., THE, b, c.**
Hoover Electric Co., b, d.
Hufford Corp., The, a.
Walter J. Hyatt Co., The, a, b.
Hydra-Power Corp., a.
Insco Co., Div.-Barry Controls Inc., b.
Integral Corp., a.
Javelin Aircraft Co. Inc., a, b.
Jordan Co., Inc., The, b.
Kelsey-Hayes Co., a.
Kemp Aero Products, a.
Lear, Inc., Grand Rapids Div., b.
Lyndon Aircraft, Inc., b.
Minneapolis-Honeywell Regulator Co., Ordnance Div., a.
National Pneumatic Co., Inc., Holtzer-Cabot Divs., b, c.
Oil-Dyne, Inc., a.
Pioneer Tool & Engrg. Co., a, b.
Power-Tronic Systems Inc., b, c.
Racine Hydraulics & Machinery Inc., a.
Reflectone Corp., The, b.
Sargent Engrg. Corp., a, b, d.
Servomechanisms, Inc., Mechatrol Div., b.
Stratos, Div.-Fairchild Engine & Airplane Corp., a.
Tapco Group, Thompson-Ramo-Wooldridge Inc., a, b.
Vard Inc., b.
Variety Aircraft Corp., b.
Vickers Inc., Div.-Sperry Rand, a, b.
Vickers Inc., Marine & Ordnance Dept., Machinery Hydraulics Div., a.
Wacline, Inc., b.
Washington Machine & Tool Works, Inc., b.
Waste King Corp., Technical Products Div., b, d.
Watertown Div., The New York Air Brake Co., a.
Western Design, Div.-U. S. Industries, Inc.; Santa Barbara Div., b.
Western Gear Corp., a thru d.

DRIVES, CONSTANT SPEED

***LYCOMING DIV., AVCO MFG. CORP.**

DRIVES, VARIABLE SPEED

***LYCOMING DIV., AVCO MFG. CORP.**

DROP FORGINGS

Aircraft Mechanics, Inc.
Aluminum Co. of America
American Aeroparts
American Brake Shoe Co.
American Car & Foundry, Div.-ACF Industries, Inc.
Billings & Spencer Co., The
Bridgeport Brass Co.
***CAMERON IRON WORKS, INC.**
Capewell Mfg. Co.
Consolidated Industries, Inc.
Corbin Products Div.
Crucible Steel Co. of America
Dirilyte Co. of America, Inc.
Kelsey-Hayes Co.
Ladish Co.
Lofstrand Co., The
Opelika Welding, Machine & Supply Inc.
Pettibone Mulliken Corp.
H. K. Porter Co., Inc.

Rockwell-Standard Corp.
Solar Aircraft Co.
Steel Improvement & Forge, The
Transue & Williams Steel Forging Corp.
Vlchek Tool Co., The
Wilcox-Crittenden Div., North & Judd Mfg. Co.
J. H. Williams & Co.

DUCTS, EXHAUST

Aeronca Mfg. Corp.
American Agile Corp.
American Tube Bending Co., Inc.
Anaconda Metal Hose Div., The American Brass Co.
Anchor Metal Spinning Co., The
B. H. Aircraft Co., Inc.
Basic Tool Industries, Inc.
***BEATON & CORBIN MFG. CO., THE**
Breeze Corporations, Inc.
Carmac Aviation
Colonial Aircraft Corp.
Components Corp.
Cromer Mfg. & Engrg., Inc.
Curtiss-Wright Corp.-Wright Aeronautical Div.
D K Mfg Co.
Diversey Engrg. Co.
Dunbar-Kapple Inc.-Aircraft Components Div.
Elzee Metal Products Co., Inc.
Ferris-Mfg. Co., The
Fletcher Mfg. Co., Inc., The
Flexible Metal Hose Mfg. Co.
Flexible Tubing Corp.
***FLEXONICS CORP., AERONAUTICAL DIV.**
Ludwig Honold Mfg. Co.
Hufford Corp., The
Hupp Aviation Co.
Intercontinental Mfg. Co., Inc.
Kaiser Aircraft & Electronics, Div.-Kaiser Industries Corp.
Kaiser Metal Products, Inc. - Fleetwings Div.
Kirk & Blum Mfg. Co., The
***LAVELLE AIRCRAFT CORP.**
Longren Aircraft Co., Inc.
Mercury Tool & Mfg. Corp.
Monogram Precision Industries
Narmco Mfg. Co.
Orchard Industries, Inc., Actionflex Div.
Parts Engrg. Co., Inc.
Penn-Michigan Mfg. Corp.
Portland Copper & Tank Works Inc.
Precision Sheet Metal, Inc.
Raybestos-Manhattan, Inc., Pa.
Edw. Renneburg & Sons Co.
***RHEEM MFG. CO., DEFENSE & TECHNICAL PRODUCTS DIV.**
C. F. Roark Welding & Engrg. Co., Inc.
Rohr Aircraft Corp.
Ryan Aeronautical Co.
Shaw Metal Products Corp.
Smith-Morris Corp.
Solar Aircraft Co.
Stainless Steel Products, Inc.
Turbo Products, Inc.
Twigg Industries
United Aircraft Products, Inc.
Universal Metal Products Inc.
Variety Aircraft Corp.
Waste King Corp., Technical Products Div.
Wiremold Co., The
Zippertubing Co., The

DUCTS, FLEXIBLE & COMPRESSIBLE

American Aeroparts
American Air Filter Co., Defense Products Div.
Anaconda Metal Hose Div., The American Brass Co.
Anchor Metal Spinning Co., The
***BEATON & CORBIN MFG. CO., THE**
Blowers Inc.
Breeze Corporations, Inc.
Carmac Aviation
Components Corp.
Consolidated Diesel Electric Corp.
Cordo Chemical Corp.
Cromer Mfg. & Engrg., Inc.
D K Mfg. Co.
C. R. Daniels, Inc.
Dayton Rubber Co., The
Dresser Mfg. Div., Dresser Industries, Inc.
Dunbar-Kapple Inc.-Aircraft Components Div.
Flexible Metal Hose Mfg. Co.
Flexible Tubing Corp.
***FLEXONICS CORP., AERONAUTICAL DIV.**
B. F. Goodrich Aviation Products
Huntington Rubber Mills
Kaiser Metal Products, Inc. - Fleetwings Div.
Lofstrand Co., The
Lone Star Plastics Co. Inc.
Minnesota Mining & Mfg. Co.
Monogram Precision Industries
Orchard Industries, Inc., Actionflex Div.
Parts Engrg. Co., Inc.
Precision Sheet Metal, Inc.
Raybestos-Manhattan, Inc., Pa.
Reinhold Engrg. & Plastics Co.
Edw. Renneburg & Sons Co.
C. F. Roark Welding & Engrg. Co., Inc.
Fred T. Roberts & Co.
Rubbercraft Corp. of California
Ryan Aeronautical Co.
Smith-Morris Corp.
Solar Aircraft Co.
Southwest Products Co.
Stainless Steel Products, Inc.
Standard-Thomson Corp., Clifford Mfg. Co. Div.
Taylor Electric Inc.
Turbo Products, Inc.
United Aircraft Products, Inc.
U. S. Flexible Metallic Tubing Co.
United States Rubber Co.
Waste King Corp., Technical Products Div.
Wiremold Co., The
Zippertubing Co., The

DUCTS, NON-FLEXIBLE

American Aeroparts
American Agile Corp.
American Tube Bending Co., Inc.
Anchor Metal Spinning Co., The
B. H. Aircraft Co., Inc.
***BEATON & CORBIN MFG. CO., THE**
Carmac Aviation
Colonial Aircraft Corp.
Cromer Mfg. & Engrg., Inc.
D K Mfg. Co.
Dunbar-Kapple Inc.-Aircraft Components Div.
Fletcher Mfg. Co., Inc., The
Flexible Metal Hose Mfg. Co.
***FLEXONICS CORP., AERONAUTICAL DIV.**
Intercontinental Mfg. Co., Inc.
Kaiser Aircraft & Electronics, Div.-Kaiser Industries Corp.
Kirk & Blum Mfg. Co., The
Lamtex Industries, Inc.
Lone Star Plastics Co., Inc.
Longren Aircraft Co., Inc.
Mercury Tool & Mfg. Corp.
Monogram Precision Industries
Narmco Mfg. Co.
Parts Engrg. Co., Inc.
Portland Copper & Tank Works Inc.
Precision Sheet Metal, Inc.
Reinhold Engrg. & Plastics Co.
Edw. Renneburg & Sons Co.
C. F. Roark Welding & Engrg. Co., Inc.
Rohr Aircraft Corp.
Ryan Aeronautical Co.
Shaw Metal Products Corp.
Silicone Insulation, Inc.
Stainless Steel Products, Inc.
Taylor Electric Inc.
Texas Metal & Mfg. Co., Inc.
Turbo Products, Inc.
Twigg Industries
United Aircraft Products, Inc.
Universal Metal Products Inc.
Variety Aircraft Corp.
Waste King Corp., Technical Products Div.
Woolf Aircraft Products, Inc.

DUPLEXERS

Aircom Inc. of New Jersey
Airtron Inc., Div.-Litton Industries
Andrew Corp.
Budd Stanley Co., Inc.
Bulow Electric Co.
Diamond Antenna & Microwave Corp.
Douglas Microwave Co., Inc.
Eljay Corp.
Genalex Div.-British Industries Corp.
J-V-M Microwave Co.
***KEARFOTT CO., INC., MICROWAVE DIV.**
Lieco, Inc.
Microwave Associates, Inc.
Monogram Precision Industries
Motorola Inc., Military Electronics Div.
N. R. K. Mfg. & Engrg. Co.
Portchester Instrument Corp.
Sage Labs., Inc.
Sperry Microwave Electronics Co., Div.-Sperry Rand Corp.
Telerad Mfg. Corp.
Victor R. F. & Microwave Co.
Waveline, Inc.

DUST ENCLOSURES
See ENCLOSURES, DUST

DYNAMOMETERS

American Electronics, Inc., Taller & Cooper Div.
Consolidated Diesel Electric Corp.
Dalmotor Div., Yuba Consolidated Industries, Inc.
W. C. Dillon & Co., Inc.
Eaton Mfg. Co.
Eder Engrg. Co., Inc.
General Electric Co., Apparatus Sales Div.
Hoover Electric Co.
Hunter Spring Co., Div.-American Machine & Metals, Inc.
Industrial Engrg. Corp.
L. A. B. Corp.
Leeds & Northrup Co.
Magtrol, Inc.
George L. Nankervis Co.
Radiation, Inc.
Schoevitz Engrg.
Standard Electric Time Co., The
Statham Instruments, Inc.
Talley Corp., The
Thwing-Albert Instrument Co.

DYNAMOTORS

American Aeroparts
Bendix Aviation Corp.-Montrose Div.
Bogue Electric Mfg., Co.
Continental Electric Co., Inc.
Dalmotor Div., Yuba Consolidated Industries, Inc.
Dayton Aviation Radio & Equipment Corp.
Eicor Div.-Scranton
General Electric Co., Apparatus Sales Div.
Hoover Electric Co.
Induction Motors Corp.
Heinz Mueller Eng. Co. Inc.
National Pneumatic Co., Inc., Holtzer-Cabot Divs.
Redmond Co., Inc.
Safety Electrical Equipment Corp.
Sangamo Electric Co.
Talley Corp., The
Task Corp.
Wincharger Corp., Sub.-Zenith Radio Corp.

EJECTION SEAT ACCESSORIES, CARTRIDGE ACTUATED

***PROPELLEX CHEMICAL DIV., CHROMALLOY CORP.**

EJECTION SYSTEMS

Aerojet-General Corp.
Aerolab Development Co.
American Machine & Foundry Co., Government Products Group
Bendix Aviation Corp., Red Bank Div.
California Aircraft Products
Consolidated Diesel Electric Corp.
Diversey Engrg. Co.
Fulton-Irgon Corp., The
Gabriel Co., The-Talco Engrg. Co. Div.
Goodyear Aircraft Corp.
Paul Hardeman, Inc.
Hardman Tool & Engrg., Co.
Holex, Inc.
Horkey-Moore Associates
Hughes Tool Co., Aircraft Div.
***MC CORMICK SELPH ASSOCIATES**
Pacific Scientific Co.
Patterson, Moos Div. - Universal Winding Co., Inc.
***PROPELLEX CHEMICAL DIV., CHROMALLOY CORP.**
Red Lion Cabinet Co., Redco Tool Div.
Reinhold Engrg. & Plastics Co.
***RHEEM MFG. CO., DEFENSE & TECHNICAL PRODUCTS DIV.**
Royal Industries, Inc.
Skinner Precision Products
Stanley Aviation Corp.
Stratos, Div.-Fairchild Engine & Airplane Corp.
Washington Technological Associates Inc.
Western Gear Corp.

ELECTRIC DRILLS
See DRILLS, ELECTRIC

ELECTRIC PANEL BOARDS
See PANEL BOARDS, ELECTRIC

ELECTRIC POWER SYSTEMS

Aerolab Development Co.
***AIRESEARCH MFG. CO., DIV.-THE GARRETT CORP.**
Allied International Co.
American Bosch Arma Corp.
American Machine & Foundry Co., Greenwich
Bendix Aviation Corp., Red Bank Div.
Bendix Utica Div., Bendix Aviation Corp.
Consolidated Diesel Electric Corp.
Consolidated Diesel Electric Corp., Western Div.
Cummins Engine Co., Inc.
Delco-Remy Div., General Motors Corp.
Du Kane Corp.
General Electric Co., Apparatus Sales Div.
Georator Corp.
Hamilton Standard, Div.-United Aircraft Corp.
Hoover Electric Co.
International Fermont Machinery Co., Inc.
Jack & Heintz, Inc.
Jeta, Inc.
Land-Air Inc.
Leach Corp.
Leland Airborne Products, Div.-American Machine & Foundry Co.
Monogram Precision Industries
Mullenbach Div.-Electric Machinery Mfg. Co.
D. W. Onan & Sons Inc.
Patterson, Moos Div. - Universal Winding Co., Inc.
Perkin Engrg. Corp.
RS Electronics Corp.
Safety Electrical Equipment Corp.
Standard Electric Time Co., The
Technical Apparatus Builders
Telectro Industries Corp.
U. S. Relay Co.
Westinghouse Electric Corp.
Winpower Mfg. Co.

ELECTRIC VALVE OPERATOR
See VALVE OPERATOR, ELECTRIC

ELECTRICAL CABLE ASSEMBLIES
See CABLE ASSEMBLIES, ELECTRICAL

ELECTRICAL FIREWALL CONNECTORS
See CONNECTORS, ELECTRICAL FIREWALL

ELECTRICAL MEASURING INSTRUMENTS
See INSTRUMENTS, ELECTRICAL MEASURING

ELECTRICAL MEASURING METERS, INSTRUMENTS
See INSTRUMENTS, ELECTRICAL MEASURING METERS

ELECTRO MAGNETS
See MAGNETS, ELECTRO

ELECTROCARDIOGRAPHS

American Cystoscope Makers, Inc.
Cambridge Instrument Co., Inc.
Ensco, Inc.
FXR, Inc.
General Electric Co., X-Ray Dept.
Jansky & Bailey, Inc.
Levinthal Electronic Products, Inc.
Offner Electronics Inc.
Sanborn Co.
Winzen Research Inc.

ELECTRO-CHEMICAL ANALYSIS EQUIPMENT
See ANALYSIS EQUIPMENT, ELECTRO-CHEMICAL

ELECTRON MICROSCOPES
See MICROSCOPES, ELECTRON

ELECTRONIC AUTOMATIC PILOTS
See AUTOMATIC PILOTS, ELECTRONIC

ELECTRONIC BREADBOARD KITS
See BREADBOARD KITS, ELECTRONIC

ELECTRONIC COOKERS
See COOKERS, ELECTRONIC

ELECTRONIC COOLING SYSTEMS
See COOLING SYSTEMS, ELECTRONIC

ELECTRONIC DENSITOMETERS
See DENSITOMETERS, ELECTRONIC

ELECTRONIC EQUIPMENT PACKAGING, SERVICE ONLY
See PACKAGING, ELECTRONIC EQUIPMENT, SERVICE ONLY

ELECTRONIC GENERATORS
See GENERATORS, ELECTRONIC

ELECTRONIC IGNITION SYSTEMS
See IGNITION SYSTEMS, ELECTRONIC

ELECTRONIC INTEGRATORS
See INTEGRATORS, ELECTRONIC

ELECTRONIC LANDING AIDS
See LANDING AIDS, ELECTRONIC

ELECTRONIC MEGAPHONES
See MEGAPHONES, ELECTRONIC

ELECTRONIC METEOROLOGICAL EQUIPMENT
See METEOROLOGICAL EQUIPMENT, ELECTRONIC

ELECTRONIC MICROMETERS
See MICROMETERS, ELECTRONIC

ELECTRONIC PHOTOFLASH EQUIPMENT
See PHOTOFLASH EQUIPMENT, ELECTRONIC

ELECTRONIC TACHOMETERS
See TACHOMETERS, ELECTRONIC

ELECTROPLATING EQUIPMENT

Allied Research Products, Inc.
Briscoe Mfg. Co.
Dean Products, Inc.
Electronic Parts Mfg. Co., Inc.
Grant Chemical Co., Inc.
Kanthal Corp., The
NRC Equipment Corp.
George L. Nankervis Co.
Rosemount Engrg. Co.
Sanborn Co.
Sel-Rex Corp.
Technical Apparatus Builders
Western Coating Co.
Westinghouse Electric Corp.
Wildberg Bros. Smelting & Refining Co.

ELECTROSTATIC PRECIPITATORS
See PRECIPITATORS, ELECTROSTATIC

ELEMENTS, HEATING

B & H Instrument Co., Inc.
Blue M Electric Co.
Carborundum Co., Refractories Div.
Cole Electric Co.
Corning Glass Works
Cox & Co., Inc.
Dean Products, Inc.
Diversey Engrg. Co.
Wilbur B. Driver Co.
Eagle Electric Mfg. Co., Inc.
Electric Heater Co., The
Electro-Flex Heat, Inc.
Electro-Tech Equipment Co.
General Electric Co., Apparatus Sales Div.
Globar Plant, Refractories Div.-The Carborundum Co.
Goodyear Tire & Rubber Co., The, Aviation Products Div.
Hevi-Duty Electric Co.
Integrated Mica Corp.
Kanthal Corp., The
Mica Fabricating Co.
Miskella Infra-Red Co., The
Norton Co.
Precision, Inc.
Rosemount Engrg. Co.
States Co., The
Statikil, Inc., Div.-The J. E. Doyle Co.
Syntron Co.
Temperature Engrg. Corp.
Thermal Refractories Corp.
H. I. Thompson Fiber Glass Co.
Tranter Mfg., Inc.
Waste King Corp., Technical Products Div.
Edwin L. Wiegand Co.

ELEMENTS, HEATING, CRYSTAL OVEN

American Printed Circuits Co., Inc.
Bendix Aviation Corp., York Div.
Cox & Co., Inc.
Electro-Flex Heat, Inc.
Monogram Precision Industries
Motorola Inc., Military Electronics Div.
Piasecki Aircraft Corp.
Milton Ross Metals Co., The
Telectro Industries Corp.
United States Dynamics Corp.

ELIMINATORS, STATIC
See STATIC ELIMINATORS

EMBEDDED ASSEMBLIES

Adept Industries Inc.
Advanced Electronics, Inc.
Aerolite Electronics Corp.
Airflyte Electronics Co.
American Printed Circuits Co., Inc.
Bacon Industries, Inc.
Bernco Engrg. Corp.
C & K Components, Inc.
Cleveland Metal Specialties Co., Electronics Div.
Control Circuits Inc.
Cooper Development Corp., Sub.-Marquardt Aircraft Co.
Doty Acoustica Electronic Labs.
Dresser Industries, Inc.
Edgerton, Germeshausen & Grier, Inc.
Electro-Mechanical Products Co.
Eljay Corp.
Emerson & Cuming, Inc.
Erie Resistor Corp.
Good Electronic Corp.
Green Rectifier Co.
Hamilton Standard, Div.-United Aircraft Corp.
Hardman Tool & Engrg. Co.
Houghton Laboratories, Inc.
ITT Federal Div., International Telephone & Telegraph Corp.
Joclin Mfg. Co.
La Pointe Industries Inc.
MF Electronics Co.
Metaplast Corp.
Minnesota Mining & Mfg. Co.
Monogram Precision Industries
Motorola Inc., Military Electronics Div.
Mutron Corp.
National Coil Co.
Networks Electronic Corp.
New York Coil Co.
Piasecki Aircraft Corp.
Precision, Inc.
Projects Unlimited Inc.
Reinhold Engrg. & Plastics Co.
Milton Ross Metals Co., The
Telectro Industries Corp.
Topper Mfg. Co., Inc.
Torwico Electronics, Inc.
Transistor Electronics Corp.
Trionics Corp.
United States Chemical Milling Corp.
Virginia Electronics Co., Inc.
Warren Transformer Co., Inc.

EMBEDDED COMPONENTS

Adept Industries Inc.
Aerolite Electronics Corp.
Airflyte Electronics Co.
American Latex Products Corp.
Bacon Industries, Inc.
Double E Products Co.
Dresser Industries, Inc.
Edgerton, Germeshausen & Grier, Inc.
Electro-Mechanical Products Co.
Eljay Corp.
Emerson & Cuming, Inc.
Erie Resistor Corp.
Good Electronic Corp.
Green Rectifier Co.
Hamilton Standard, Div.-United Aircraft Corp.
Hardman Tool & Engrg. Co.
Houghton Laboratories, Inc.
International Resistance Co.
Metaplast Corp.
Minitran Corp.
Molding Corp. of America
Motorola Inc., Military Electronics Div.
Mutron Corp.
National Coil Co.
Networks Electronic Corp.
New York Coil Co.
Precision, Inc.
Reinhold Engrg. & Plastics Co.
Silicone Insulation, Inc.
Topper Mfg. Co., Inc.
Torwico Electronics, Inc.
Trionics Corp.
Unison Products, Inc.
Virginia Electronics Co., Inc.
Warren Transformer Co., Inc.

EMERGENCY LIGHTING EQUIPMENT
See LIGHTING EQUIPMENT, EMERGENCY

ENAMEL, INSULATION

George C. Borthig Co. Inc.
Dennis Chemical Co.
***DOW CORNING CORP.**
Metallizing Co. of Los Angeles Inc.
Midland Industrial Finishes Co.
Permacel
Polymer Corp., The
Vorac Co., The

ENCLOSURES, DUST

A&P Metal Products Mfg. Corp.
***AIRESEARCH MFG. CO. OF ARIZ.**
Alpitec, Inc.
Anchor Metal Spinning Co., The
Brooks & Perkins, Inc.
Delta Products Div.-Air Accessories, Inc.
Fletcher Mfg. Co., Inc., The
Kaiser Metal Products, Inc. - Fleetwings Div.
Mid-West Metal Products, Inc.
Monogram Precision Industries
Smith-Morris Corp.
Strong Scott Mfg. Co., The
United States Rubber Co.
Waldorf Fluid Systems Div.-F. C. Huyck & Sons

ENGINE ACCESSORIES & COMPONENTS

Accessory Products Co., Div.-Textron Inc.
Actuator Products Div., Geartronics Corp.
Adel Precision Products of California, Div.-General Metals Corp.
Aero Supply Mfg. Inc.
Aerodex, Inc.
Aerojet-General Corp.
***AIRESEARCH MFG. CO. OF ARIZ.**
***AIRESEARCH MFG. CO., DIV.-THE GARRETT CORP.**
Allen Tool Corp.
American Aeroparts
American Bosch Arma Corp.
American Non Gran Bronze Co.
American Standard Products, Inc.
American Tube Bending Co., Inc.
Amolt Corp.
Astronautics Engrg. Co.
Atlantic Instrument Corp., Sub.-American Electronics, Inc.
Auburn Spark Plug Co., Inc.
B G Corp., The
B. H. Aircraft Co., Inc.
Beaver Precision Products Inc.
***BENDIX AVIATION CORP., HAMILTON DIV.**
Bendix Aviation Corp., Montrose Div.
Bendix Aviation Corp., Red Bank Div.
***BENDIX PRODUCTS DIV., BENDIX AVIATION CORP.**
Bendix-Pacific Div., Bendix Aviation Corp.
Bendix Utica Div., Bendix Aviation Corp.
Bernco Engrg. Corp.
California Aircraft Products
***CAMERON IRON WORKS, INC.**
Capital City Mfg. Co.
Caterpillar Tractor Co., Engine Div.
Centrax Ltd., American Sales Office
Century Fasteners Corp.
Chandler Evans Corp.
Christie Machine Works
Clark-Aiken Co., The
Conax Corp.
Consolidated Controls Corp.
Consolidated Diesel Electric Corp.
Cummins Engine Co., Inc.
Curtiss-Wright Corp., Research Div.
Curtiss-Wright Corp., Wright Aeronautical Div.
Delco-Remy Div., General Motors Corp.
Diversey Engrg. Co.
Dresser Mfg. Div., Dresser Industries, Inc.
Dunbar-Kapple Inc.-Aircraft Components Div.
Dynamic Controls Corp.
Dynamic Devices, Inc.
Electric Regulator Corp.
Electrical & Mechanical Design Co.
Essex Mfg., Co., Inc.
Federal Mfg. & Engrg. Corp.
***FLEXONICS CORP., AERONAUTICAL DIV.**
General Electric Co., Apparatus Sales Div.
B. H. Hadley, Inc.
Hallett Mfg., Co.
Hamilton Standard, Div.-United Aircraft Corp.
***A. W. HAYDON CO., THE**
Holley Carburetor Co.
Hoover Electric Co.
Hupp Aviation Co.
Hydra-Power Corp.
***HYDRO-AIRE CO., DIV.-CRANE CO.**

Hydrodyne Corp., Skinner Seal Div.
Jack & Heintz, Inc.
Joclin Mfg. Co.
C. B. Kaupp & Sons, Inc.
Kaynar Mfg. Co., Inc.
M. W. Kellogg Co., The
Kelsey-Hayes Co.
Koehler Aircraft Products Co.
Korda Industries
***LYCOMING DIV., AVCO MFG. CORP.**
J. E. Menaugh Co.
Mercury Tool & Mfg. Corp.
Monogram Precision Industries
Natl. Water Lift Co., Div.-Cleveland Pneumatic Industries, Inc.
Parts Engrg. Co., Inc.
Pesco Products Div.-Borg-Warner Corp.
Pneu-Hydro Valve Corp.
Portland Copper & Tank Works Inc.
Reaction Motors Div., Thiokol Chem. Corp.
Reinhold Engrg. & Plastics Co.
Revere Corp. of America
***RHEEM MFG. CO., DEFENSE & TECHNICAL PRODUCTS DIV.**
Rohr Aircraft Corp.
Ryan Aeronautical Co.
Sargent Engrg. Corp.
Servomechanisms, Inc.
Simmonds Aerocessories, Inc.
Smith-Morris Corp.
Solar Aircraft Co.
Southwest Products Co.
Stainless Steel Products, Inc.
Standard-Thomson Corp., Clifford Mfg. Co. Div.
A. U. Stone & Co., Inc.
Stratos, Div.-Fairchild Engine & Airplane Corp.
T-C Div., Dyna-Empire, Inc.
Tapco Group, Thompson-Ramo-Wooldridge Inc.
Thiokol Chemical Corp., Hunter-Bristol Div.
Turbo Products, Inc.
United Aircraft Products, Inc.
Vard Inc.
Vickers Inc., Div.-Sperry Rand
Waste King Corp., Technical Products Div.
***WEATHERHEAD CO., THE**
Western Gear Corp.

ENGINE BREATHERS
See BREATHERS, ENGINE

ENGINE CONTROL SYSTEMS

ACF Industries Inc.
Adel Precision Products of California, Div.-General Metals Corp.
Aero Supply Mfg. Inc.
Aerojet-General Corp.
Air Logistics Corp.
***AIRESEARCH MFG. CO. OF ARIZ.**
***AIRESEARCH MFG. CO., DIV.-THE GARRETT CORP.**
American Bosch Arma Corp.
Avien, Inc.
Beaver Precision Products Inc.
***BENDIX AVIATION CORP., HAMILTON DIV.**
***BENDIX PRODUCTS DIV., BENDIX AVIATION CORP.**
Bristol Co., The
Bulow Electric Co.
Capital City Mfg. Co.
Chandler Evans Corp.
Consolidated Controls Corp.
Consolidated Diesel Electric Corp.
Curtiss-Wright Corp., Research Div.
Curtiss-Wright Corp.-Wright Aeronautical Div.
Dalmotor Div., Yuba Consolidated Industries, Inc.
Delco-Remy Div., General Motors Corp.
Fairchild Astrionics Div., Fairchild Engine & Airplane Corp.
General Electric Co., Apparatus Sales Div.
Hamilton Standard, Div.-United Aircraft Corp.
***A. W. HAYDON CO., THE**
Hoover Electric Co.
Kelsey-Hayes Co.
Korda Industries
Lear, Inc., Grand Rapids Div.
Marquardt Aircraft Co.
Morse Instrument Co., The
Pneu-Hydro Valve Corp.
***RHEEM MFG. CO., DEFENSE & TECHNICAL PRODUCTS DIV.**
Rocketdyne Div.-North American Aviation, Inc.
Sargent Engrg. Corp.
Servomechanisms, Inc.
Simmonds Aerocessories, Inc.
Southwest Products Co.
Space Corp.
Standard-Thomson Corp., Clifford Mfg. Co. Div.
T-C Div., Dyna-Empire, Inc.
Tapco Group, Thompson-Ramo-Wooldridge Inc.
Teleflex Inc.
Twin Coach Co., Aircraft-Missiles
United Aircraft Products, Inc.
United Electric Controls Co.
Waldorf Electronics. Div.-F.C. Huyck & Sons
Waste King Corp., Technical Products Div.
Western Design, Div.-U.S. Industries, Inc., Santa Barbara Div.

ENGINE CONTROL SYSTEMS, AUTOMATIC

Aerojet-General Corp.
Air Logistics Corp.
***AIRESEARCH MFG. CO., DIV.-THE GARRETT CORP.**
American Bosch Arma Corp.
Avien, Inc.
***BENDIX AVIATION CORP., HAMILTON DIV.**
***BENDIX PRODUCTS DIV., BENDIX AVIATION CORP.**
Bendix Utica Div., Bendix Aviation Corp.
Bristol Co., The
Chandler Evans Corp.
Consolidated Controls Corp.
Consolidated Diesel Electric Corp.
Curtiss-Wright Corp.-Wright Aeronautical Div.
Dalmotor Div., Yuba Consolidated Industries, Inc.
Edgerton, Germeshausen & Grier, Inc.
Electric Regulator Corp.
Fairchild Astrionics Div., Fairchild Engine & Airplane Corp.
General Electric Co., Apparatus Sales Div.
Hamilton Standard, Div.-United Aircraft Corp.
***A. W. HAYDON CO., THE**
Holley Carburetor Co.
Hoover Electric Co.
Korda Industries
Marquardt Aircraft Co.
Minneapolis-Honeywell Regulator Co.-Aeronautical Div.
Pneu-Hydro Valve Corp.
Reaction Motors Div., Thiokol Chem. Corp.
Rocketdyne Div.-North American Aviation, Inc.
Ryan Aeronautical Co.
Sargent Engrg. Corp.
Servomechanisms, Inc.
Southwestern Industrial Electronics Co.
Standard-Thomson Corp., Clifford Mfg. Co. Div.
Tapco Group, Thompson-Ramo-Wooldridge Inc.
Twin Coach Co., Aircraft-Missiles
United Aircraft Products, Inc.
United Electric Controls Co.
Waldorf Electronics. Div.-F.C. Huyck & Sons
Waste King Corp., Technical Products Div.

ENGINE CONTROLS, MECHANICAL & VACUUM

ACF Industries Inc.
Aero Supply Mfg. Inc.
Aerojet-General Corp.
***AIRESEARCH MFG. CO., DIV.-THE GARRETT CORP.**
American Bosch Arma Corp.
Applied Dynamics Corp.
Arens Controls, Inc.
Atlantic Instrument Corp., Sub.-American Electronics, Inc.
Atlas Precision Products, Co.
***BENDIX AVIATION CORP., HAMILTON DIV.**
***BENDIX PRODUCTS DIV., BENDIX AVIATION CORP.**
Bristol Co., The
Capital City Mfg. Co.
Chandler Evans Corp.
Components Corp.
Consolidated Controls Corp.
Consolidated Diesel Electric Corp.
Curtiss-Wright Corp.-Wright Aeronautical Div.
Hamilton Standard, Div.-United Aircraft Corp.
Holley Carburetor Co.
Hoover Electric Co.
***HYDRO-AIRE CO., DIV.-CRANE CO.**
Marquardt Aircraft Co.
Morse Instrument Co., The
Pacific Scientific Co.
Sargent Engrg. Corp.
Simmonds Aerocessories, Inc.
Southwest Products Co.
Southwestern Industrial Electronics Co.
Standard-Thomson Corp., Clifford Mfg. Co. Div.
United Aircraft Products, Inc.
United Electric Controls Co.
Vard Inc.
Waldorf Fluid Systems. Div.-F.C. Huyck & Sons
Waste King Corp., Technical Products Div.
Western Gear Corp.

ENGINE MOUNTS
See MOUNTS, ENGINE

ENGINE STARTERS, GAS TURBINE
See STARTERS, GAS TURBINE ENGINE

ENGINE STARTERS, ROCKET
See STARTERS, ROCKET ENGINE

ENGINE STARTING SYSTEMS & CONTROLS, GAS TURBINE ENGINE

Accessory Products Co., Div.-Textron Inc.
Aerojet-General Corp.
***AIRESEARCH MFG. CO. OF ARIZ.**
***AIRESEARCH MFG. CO., DIV.-THE GARRETT CORP.**
American Bosch Arma Corp.
Avien, Inc.
Bendix Aviation Corp., Red Bank Div.
***BENDIX PRODUCTS DIV., BENDIX AVIATION CORP.**
Bendix Utica Div., Bendix Aviation Corp.
Capital City Mfg. Co.
Chandler Evans Corp.
Christie Machine Works
Consolidated Diesel Electric Corp.
Consolidated Diesel Electric Corp., Western Div.
Curtiss-Wright Corp.-Santa Barbara Div.
Curtiss-Wright Corp.-Utica Div.
Curtiss-Wright Corp.-Wright Aeronautical Div.
Delco-Remy Div., General Motors Corp.
Dresser Industries, Inc.
Electric Regulator Corp.
General Electric Co., Apparatus Sales Div.
Hamilton Standard, Div.-United Aircraft Corp.
Hoover Electric Co.
Hughes Tool Co., Aircraft Div.
***HYDRO-AIRE CO., DIV.-CRANE CO.**
Jack & Heintz, Inc.
Lear, Inc., Grand Rapids Div.
George L Nankervis Co.
Northeastern Engrg. Inc.
Perfection Industries, Div.-Hupp Corp.
Pre-Flite Industries Corp.-Sub. – Avco Corp.
Randall Engrg. Corp.
Sargent Engrg. Corp.
Solar Aircraft Co.
Southwestern Industrial Electronics Co.
Space Corp.
Standard-Thomson Corp., Clifford Mfg. Co. Div.
Stratos, Div.-Fairchild Engine & Airplane Corp.
Tapco Group, Thompson-Ramo-Wooldridge Inc.
Varo Mfg. Co., Inc.
Vickers Inc., Div.-Sperry Rand
Waldorf Fluid Systems. Div.-F.C. Huyck & Sons
Watertown Div., The New York Air Brake Co.
Western Gear Corp.
Weston Hydraulics Ltd.-Sub., Borg-Warner Corp.

ENGINE-COOLING RADIATORS
See RADIATORS, ENGINE—COOLING

ENGINES

a. Auxiliary Jet
b. Auxiliary Rocket
c. Diesel
d. Gas Turbine
e. Nuclear Rocket
f. Nuclear Turbine
g. Pulse Jet
h. Ramjet
i. Rocket
j. Rocket, Liquid
k. Rocket, Solid

ACF Industries Inc., e.
Aerojet-General Corp., b, i, j, k.
Aerolab Development Co., k.
***AIRESEARCH MFG. CO. OF ARIZ., c, e.**
***AIRESEARCH MFG. CO., DIV.-THE GARRETT CORP., a, d.**
Alco Products, Inc., c, e, k.
Allied International Co., c.
Allis-Chalmers, c.
American Rocket Co., a, j, k.
Arde-Portland, Inc., k.
Astrodyne, Inc., b, k.
Atlantic Research Corp., b, i, k.
Bell Aircraft Corp., Niagara Frontier Div., a, b, i, j, k.
Bridgeport Brass Co., i, k.
Caterpillar Tractor Co., Engine Div., c.
Chicago Pneumatic Tool Co., c.
Christie Machine Works, d, j, k.
Continental Aviation & Engrg. Corp., a, c, d, h.
Cooper Development Corp., Sub.-Marquardt Aircraft Co., b, i, k.
Cooper-Bessemer Corp., The, c.
Cummins Engine Co., Inc., c.
Curtiss-Wright Corp., Research Div., d thru h.
Curtiss-Wright Corp., Santa Barbara Div., d.
Curtiss-Wright Corp., Utica Div., c, d.
Curtiss-Wright Corp., Wright Aeronautical Div., a, b, d, e, h, i, j.
Detroit Diesel Engine Div.-General Motors Corp., c.
Diversey Engrg. Co., a, b, d, e, f, h thru k.
Dresser Industries, Inc., c, d.
Dynamic Devices, Inc., b, h thru k.
Edgerton, Germeshausen & Grier, Inc., e, f.
Food Machinery & Chemical Corp., h thru k.
Fulton-Irgon Corp., The, b, i, j, k.
General Electric Co., Apparatus Sales Div., a, b, d, f, h thru k.
Giannini Plasmadyne Corp.
Hicks Corp., The, i.
Hoover Electric Co., c, d.
Hughes Tool Co., Aircraft Div., a, b, d, h.
Intercontinental Mfg. Co., Inc., a, k.
Kaiser Metal Products, Inc. – Fleetwings Div., a, b, h thru k.
M. W. Kellogg Co., The, a, b, g thru k.
Kennedy Van Saun Mfg. & Engrg. Corp., k.
***LYCOMING DIV., AVCO MFG. CORP., d.**
Mack Trucks, Inc., Government Div., c.
Marquardt Aircraft Co., h.
***MC CORMICK SELPH ASSOCIATES, b, i, k.**
Newbrook Machine Corp., a, b, i, j, k.
Nordberg Mfg. Co., c.
Norris-Thermador Corp., b, h, k.
Oerlikon Tool & Arms Corp. of America, k.
Olin Mathieson Chemical Corp., Energy Div., k.
Oliver Corp., The, c.
D. W. Onan & Sons Inc., c.
Parts Engrg. Co., Inc., j, k.
Patterson, Moos Div. – Universal Winding Co., Inc., e.
Pressed Steel Tank Co., a, b, i, k.
***PROPELLEX CHEMICAL DIV., CHROMALLOY CORP., k.**
Reaction Motors Div., Thiokol Chem. Corp., b, i, j, k.
Red Lion Cabinet Co., Redco Tool Div., k.
C. F. Roark Welding & Engrg. Co., Inc., f.

Rocketdyne Div.-North American Aviation, Inc., b, e, i, j.
Rohm & Haas Co., Redstone Arsenal Research Div., b, i, k.
Solar Aircraft Co., d, i.
Southwestern Industrial Electronics Co.
Special Projects Lab., Food Machinery & Chemical Corp., b, i, j.
Stanley Aviation Corp., i, j.
Strong Scott Mfg. Co., The, j.
Thiokol Chemical Corp., a, b, e, f, i, j, k.
Topper Mfg. Co., Inc., k.
Universal Moulded Products Corp., a, b, h thru k.
Veet Industries, j.
Western Arc Welding, Inc., k.
Westinghouse Electric Corp., d.
Wheland Co., The, k.
***WHITE DIESEL ENGINE DIV., THE WHITE MOTOR CO., c.**
Wilks Precision Instrument Co., Inc., k.

ENVIRONMENTAL TEST CHAMBERS
See TEST CHAMBERS, ENVIRONMENTAL

EXCITERS, FIELD

Electric Machinery Mfg. Co.
General Electric Co., Apparatus Sales Div.
Green Rectifier Co.
Heinz Mueller Eng. Co. Inc.

EXHAUST ASSEMBLIES

Aircraft Precision Products, Inc.
American Agile Corp.
American Machine & Foundry Co., Government Products Group
American Tube Bending Co., Inc.
Anaconda Metal Hose Div., The American Brass Co.
Anchor Metal Spinning Co., The
Associated Engrg. & Mfg. Corp.
B. H. Aircraft Co., Inc.
***BEATON & CORBIN MFG. CO., THE**
Benson Mfg., Co., The
Colonial Aircraft Corp.
Curtiss-Wright Corp.-Wright Aeronautical Div.
Diversey Engrg. Co.
Dresser Industries, Inc.
Dresser Mfg. Div., Dresser Industries, Inc.
Finn Aeronautical Div., T. R. Finn & Co., Inc.
***FLEXONICS CORP., AERONAUTICAL DIV.**
Hanlon & Wilson Co., The
Hufford Corp., The
Hupp Aviation Co.
Kaiser Aircraft & Electronics, Div.-Kaiser Industries Corp.
Kaiser Metal Products, Inc. – Fleetwings Div.
M. W. Kellogg Co., The
Kelsey -Hayes Co.
Mercury Tool & Mfg. Corp.
Minnesota Mining & Mfg. Co.
Monogram Precision Industries
Norton Co., New Products Dept.
Parts Engrg. Co., Inc.
Penn-Michigan Mfg. Corp.
Piasecki Aircraft Corp.
Portland Copper & Tank Works Inc.
Red Lion Cabinet Co., Redco Tool Div.
Edw. Renneburg & Sons Co.
***RHEEM MFG. CO., DEFENSE & TECHNICAL PRODUCTS DIV.**
C. F. Roark Welding & Engrg. Co., Inc.
Rohr Aircraft Corp.
Ryan Aeronautical Co.
Smith-Morris Corp.
Solar Aircraft Co.
Stainless Inc.
Stainless Steel Products, Inc.
Stalker Corp., The
Tapco Group, Thompson-Ramo-Wooldridge Inc.
Task Corp.
Turbo Products, Inc.
Twigg Industries
Twin Coach Co., Aircraft-Missiles
Union Asbestos & Rubber Co.
United Aircraft Products, Inc.
Waste King Corp., Technical Products Div.
Wilks Precision Instrument Co., Inc.

EXHAUST CONES
See CONES, EXHAUST

EXHAUST CONES, GAS TURBINE ENGINE

Aircraft Mechanics, Inc.
Aircraft Precision Products, Inc.
Anchor Metal Spinning Co., The
B. H. Aircraft Co., Inc.
Benson Mfg., Co., The
Christie Machine Works
Cromer Mfg. & Engrg., Inc.
Curtiss-Wright Corp., Santa Barbara Div.
Diversey Engrg. Co.
Dresser Industries, Inc.
Dresser Mfg. Div., Dresser Industries, Inc.
Finn Aeronautical Div., T. R. Finn & Co., Inc.
Fletcher Mfg. Co., Inc., The
Hanlon & Wilson Co., The
Haveg Industries, Inc.
Hupp Aviation Co.
Ingersoll Kalamazoo Div., Borg-Warner Corp.
Kaiser Aircraft & Electronics, Div.-Kaiser Industries Corp.
Kaiser Metal Products, Inc. – Fleetwings Div.
M. W. Kellogg Co., The
Kelsey-Hayes Co.
Ladish Co.
***LAVELLE AIRCRAFT CORP.**
Lodge & Shipley Co., The
Mercury Tool & Mfg. Corp.
National Beryllia Corp.
Newbrook Machine Corp.
Norton Co., New Products Dept.
Parts Engrg. Co., Inc.
Penn-Michigan Mfg. Corp.
Piasecki Aircraft Corp.
Portland Copper & Tank Works Inc.
***RHEEM MFG. CO., DEFENSE & TECHNICAL PRODUCTS DIV.**
C. F. Roark Welding & Engrg. Co., Inc.
Ryan Aeronautical Co.
Silicone Insulation, Inc.
Smith-Morris Corp.
Solar Aircraft Co.
Stainless Steel Products, Inc.
Thermal Refractories Corp.
C. W. Torngren Co., Inc.
Turbo Products, Inc.
Twigg Industries
Twin Coach Co., Aircraft-Missiles
United Aircraft Products, Inc.
Westinghouse Electric Corp.

EXHAUST
a. Ducts
b. Heat Exchangers
c. Muffs
d. Stacks
e. Systems

Aeronca Mfg. Corp., a, b.
Aeroscience, Inc.
Aircraft Mechanics, Inc., a, d.
Aircraft Precision Products, Inc., a thru d.
***AIRESEARCH MFG. CO. DIV.-THE GARRETT CORP., b.**
American Air Filter Co., Defense Products Div., b.
American Machine & Foundry Co., Government Products Group, a.
American Tube Bending Co., Inc., d.
Anaconda Metal Hose Div., The American Brass Co., a.
Anchor Metal Spinning Co., The, a, d.
B. H. Aircraft Co., Inc., a.
Basic Tool Industries, Inc., a, b, c.
***BEATON & CORBIN MFG. CO., THE, a.**
Benson Mfg., Co., The, a, c, d.
Blowers Inc., e.
Byrne Doors Inc., a, d.
California Aircraft Products, a, b.
Carmac Aviation, a, c, d, e.
Christie Machine Works
Colonial Aircraft Corp., a thru e.
Cromer Mfg. & Engrg., Inc., a, c, d.
Curtiss-Wright Corp., Research Div., a, b, c.
Dean Products, Inc., b.
Diversey Engrg. Co., a thru d.
Doyle & Roth Mfg. Co., Inc., b.
Dresser Mfg. Div., Dresser Industries, Inc., a thru e.
Dunbar-Kapple Inc.-Aircraft Components Div., a.
Eastern Industries Inc., b.
Finn Aeronautical Div., T. R. Finn & Co., Inc., a.
Fletcher Mfg. Co., Inc., The, a.
Flexible Metal Hose Mfg. Co., a.
***FLEXONICS CORP., AERONAUTICAL DIV., a.**
Griscom-Russell Co., The, b.
Hanlon & Wilson Co., The, a thru e.
Haveg Industries, Inc., a thru e.
Hewitt-Robins, Inc., a.
Ludwig Honold Mfg. Co., a.
Houston Fearless Corp., a, b.
Hupp Aviation Co., a thru e.
Intercontinental Mfg. Co., Inc., a.
***JANITROL AIRCRAFT DIV., SURFACE COMBUSTION CORP., a, b, e.**
Kaiser Aircraft & Electronics, Div.-Kaiser Industries Corp., a thru e.
Kentucky Metal Products Co., a.
Kolcast Industries-Div. Thompson Ramo Wooldridge Inc., a.
Lamtex Industries, Inc., a.
***LAVELLE AIRCRAFT CORP., a.**
Mercury Tool & Mfg. Corp., a thru d.
Minnesota Mining & Mfg. Co., a.
Monogram Precision Industries, a thru d.
Narmco Mfg. Co., a.
National Beryllia Corp., b.
Newbrook Machine Corp., a thru d.
Opelika Welding, Machine & Supply Inc., a thru d.
Orchard Industries, Inc., Actionflex Div., a.
Parts Engrg. Co., Inc., a, d, e.
Penn-Michigan Mfg. Corp., d, e.
Portland Copper & Tank Works Inc., a.
Precision Sheet Metal, Inc., a.
Project Fabrication Corp., b.
Red Lion Cabinet Co., Redco Tool Div., b.
Reinhold Engrg. & Plastics Co., a.
Edw. Renneburg & Sons Co., a thru e.
***RHEEM MFG. CO., DEFENSE & TECHNICAL PRODUCTS DIV., d. e.**
C. F. Roark Welding & Engrg. Co., Inc., a, b.
Ryan Aeronautical Co., a thru e.
Silicone Insulation, Inc., a.
Smith-Morris Corp., a thru d.
Solar Aircraft Co., a thru e.
South Wind Div., Stewart Warner Corp., b.
Stainless Inc., a, d.
Stainless Steel Products, Inc., a, c, d, e.
Standard-Thomson Corp., Clifford Mfg. Co., Div., a, b.
Task Corp., b.
Teiner Engrg. Corp., a, b.
Thompson Engrg. Co., The, Missile Products Div., b.
Trane Co., The, b.
Twigg Industries, a, b, c.
Twin Coach Co., Aircraft-Missiles, a, b, d.
United Aircraft Products, Inc., a, b.
Universal Metal Products Inc., a, d.
Waste King Corp., Technical Products Div., a thru e.
Western Iron & Foundry Co., Inc., d.

EXPLOSIVE BOLT CARTRIDGES
See BOLT CARTRIDGES, EXPLOSIVE

EXPLOSIVE METAL FORMING & SIZING
***PROPELLEX CHEMICAL DIV., CHROMALLOY CORP.**

EXPLOSIVE RIVETS
See RIVETS, EXPLOSIVE

EXPLOSIVES, METAL FORMING
***AMERICAN POTASH & CHEMICAL CORP.**

EXTENSIONS, SHAFT

Actuator Products Div., Geartronics Corp.
Amatom Electronic Hardware Co. Inc.
Capital City Mfg. Co.
Diversey Engrg. Co.
Hoover Electric Co.
Vard Inc.

EXTRUSIONS, METALLIC

Adam Metal Supply Inc.
Allegheny Ludlum Steel Corp.
Aluminum Co. of America
American Aeroparts
American Brass Co., The
Bram Metallurgical & Chemical Co.
***CAMERON IRON WORKS, INC.**
Chase Brass & Copper Co., Inc.
Curtiss-Wright Corp., Research Div.
Division Lead Co.
Dow Chemical Co., The
Etched Products Corp.
H. M. Harper Co.
Harvey Aluminum
Hufford Corp., The
International Nickel Co., The
Kaiser Aluminum & Chemical Sales, Inc.
Ladish Co.
Mueller Brass Co.
National Tube Div.,-United States Steel Corp.
Norris-Thermador Corp.
Precision Shapes, Inc.
Pressed Steel Tank Co.
Standard Metals Corp.
Teiner Engrg. Corp.
Titanium Metals Corp. of America
Tube-Turns Div., Chemetron Corp.

EXTRUSIONS, NON-METALLIC

Allied Plastics Supply Corp.
American Aeroparts
American Agile Corp.
Auburn Mfg. Co., The
Centralab, Div.-Globe-Union
Chemplast, Inc.
Continental Rubber Works
Curtiss-Wright Corp., Research Div.
Electrical Refractories Co., The
Emerson Plastics Corp.
Gladding, McBean & Co.
Huntington Rubber Mills
Isolantite Mfg. Corp.
Jessall Plastics
Jodee Plastics Co.
Luzerne Rubber Co.
M & Q Plastic Products
Metals & Controls Corp., General Plate Div.
Minnesota Mining & Mfg. Co.
National Beryllia Corp.
National Tube Div.,-United States Steel Corp.
New England Tape Co., Div.-United-Carr Fastener Corp.
Norton Co.
Norton Co., New Products Dept.
Ohio Carbon Co., The
Polymer Corp., The
Raybestos-Manhattan, Inc.
Resistoflex Corp.
Roberts Toledo Rubber Co., The
Milton Ross Metals Co., The
Rubbercraft Corp. of California
Saylor Electric Products Corp.
Schlegel Mfg. Co.
Sparta Mfg. Co., Div.-U. S. Ceramic Tile Co.
Taylor Electric Inc.
Thermal Refractories Corp.
Turbo Products, Inc.
United States Rubber Co.
Wilmington Fibre Specialty Co.
Yardley Plastics Co.

EYELETS

Abbott Screw & Mfg. Co.
Alac, Inc.
Amatom Electronic Hardware Co. Inc.
American Brass Co., The

Eyelet Tool Co. Inc.
Goe Engrg. Co.
J. E. Menaugh Co.
Prospect Screw Machine Products
Edward Segal
Stanley-Judd Div.-The Stanley Works
Stover Co., Inc., The
Edwin B. Stimpson Co., Inc.
Sylvania Electric Products Inc., Parts Div.
United Mineral & Chemical Corp.
United Shoe Machinery Corp., Ordnance Dept.
Waterbury Companies, Inc.
Waterbury Pressed Metal Co., The

FABRICATORS, POWDERED METAL PARTS

Aluminum Co. of America
American Aeroparts
Bassick Co., The, Div.-Stewart-Warner
Bergen Carbide Co.
Curtiss-Wright Corp., Research Div.
Delta Chemical Works, Inc.
Double E Products Co.
Engelhard Industries, Inc.
Globe Industries, Inc., Supermet Div.
Gordon Enterprises
Monogram Precision Industries
Motorola Inc., Military Electronics Div.
Muckle Mfg. Co.
Mueller Brass Co.
Raybestos-Manhattan, Inc.
Raybestos-Manhattan, Inc., Pa.
Edw. Renneburg & Sons Co.
St. Marys Carbon Co.
Seamless Products Co., Inc.
Specialty Engrg. & Electronics Co.
Sylvania Electric Products Inc., Chemical & Metallurgical Div.
United Mineral & Chemical Corp.

FACSIMILE RECORDING PAPER
See PAPER, FACSIMILE RECORDING

FANS

***AIRESEARCH MFG. CO., DIV.-THE GARRETT CORP.**
American Aeroparts
American Agile Corp.
American Air Filter Co., Defense Products Div.
Ashland Electric Products, Inc.
Benson Mfg., Co., The
Clarage Fan Co.
Coppus Engrg. Corp.
Dean & Benson Research, Inc.
Diehl Mfg. Co.
Garden City Fan Co.
Hoover Electric Co.
ILG Electric Ventilating Co.
Joy Mfg. Co.
Koppers Co., Inc.
McLean Engrg. Laboratories
Monogram Precision Industries
Heinz Mueller Eng. Co. Inc.
Peerless Electric Co., The
Pesco Products Div.-Borg-Warner Corp.
Edw. Renneburg & Sons Co.
Rotron Mfg. Co.
Torrington Mfg. Co. Inc., The, Specialty Blower Div.
Western Design, Div.-U.S. Industries, Inc., Santa Barbara Div.

FANS, TURBO
See TURBO FANS

FASTENERS

a. **Blind**
b. **Cowl**
c. **Self-Locking**
d. **Slide**
e. **Snap**

Abbott Screw & Mfg. Co.
Adam Metal Supply Inc., a.
Adams Rite Mfg. Co., b.
Aero Bolt & Screw Co., Inc., c.
Aero Leather Products Co., e.
Allen Mfg. Co.
Allmetal Screw Products Co., Inc., c.
American Aeroparts, a thru e.
American Screw Co., b.
American Standard Products, Inc., a thru e.
Anti-Corrosive Metal Products Co., Inc., c.
Auto-Valve Inc., a, b, c.
Best Aircraft Corp., a thru e.
Bland Burner Co., The, b.
Boots Aircraft Nut Corp., a, c.
Brush Nail Expansion Bolt Co., a, c.
Burklyn Co.
Calinoy-Div.-Illinois Tool Works, a thru e.
Camcar Screw & Mfg. Co., Div.-Textron Industries, Inc., b.
Camloc Fastener Corp., b, c.
Capewell Mfg. Co., e.
Carmac Aviation
Century Fasteners Corp., b, e.
Chase Brass & Copper Co., Inc.
Chicago Screw Co., The, Div.-Standard Screw Co.
Conmar Products Corp., d.
Continental Screw Co., c.
Corbin Products Div., c.
Deutsch Fastener Corp., a, b, d.
Dimco-Gray Co., c.
R. C. Dudek & Co., a, c.
Eaton Mfg. Co., c.
Eaton Mfg. Co., Reliance Div., c, e.
Elastic Stop Nut Corp. of America, a, b, c.
Fasteners, Inc., c.
Federal Screw Products Inc., a.
George K. Garrett Co., Inc., e.
General American Transportation Corp.
B. F. Goodrich Aviation Products, a, d.
Groov-Pin Corp., a, c.
H. M. Harper Co.
***HARTFORD MACHINE SCREW CO., DIV.-STANDARD SCREW CO.**
Heli-Coil Corp., c.
Hi-Shear Rivet Tool Co., a, c.
Huck Mfg. Co., a, c.
Jacobson Nut Mfg. Corp., c.
Kaynar Mfg. Co., Inc., e.
Klincher Locknut Corp., c.
H. Koch & Sons, c.
Lion Fastener Co., Inc., b, c.
Lucas Aircraft Supply Co., a thru e.
Monogram Precision Industries, a thru e.
National Lead Co.
National Screw & Mfg. Co., The, a, c.
Nelson Stud Welding, Div.-Gregory Industries, Inc., a.
D. W. Price Corp., c.
Republic Steel Corp., c.
Rosan, Inc., a thru e.
Schlegel Mfg. Co., c, d.
Scovill Mfg. Co., b, d, e.
Servwell Products Co., c.
Shur-Lok Corp., c.
Simmons Fastener Corp., a, b, c.
Southco Div., South Chester Corp., a, b, c.
Standard Locknut & Lockwasher Inc., c.
Standard Pressed Steel Co., a, c.
Stanley-Judd Div.-The Stanley Works, a thru e.
Star Expansion, a.
Stic-Klip Mfg., Co., c.
Edwin B. Stimpson Co., Inc., d, e.
TA Mfg. Corp., a.
Talon, Inc., d.
Tinnerman Products, Inc., a, b, c.
***TOWNSEND CO., CHERRY RIVET DIV.**, a, c.
United States Chemical Milling Corp., a, b, d.
United Supply Co., a thru d.
Waldes Kohinoor, Inc., b thru e.
Waldom Electronics Inc.
Waltham Precision Instrument Co., c.
Waterbury Pressed Metal Co., The, c.
Zippertubing Co., The, d.

FEED SYSTEMS

Ainslie Corp.
American Machine & Foundry Co., Greenwich
Associated Engineers, Inc.
Chandler Evans Corp.
Diamond Antenna & Microwave Corp.
Dresser Mfg. Div., Dresser Industries, Inc.
Eyelet Tool Co. Inc.
Radiatronics, Inc.
Teiner Engrg. Corp.
Telerad Mfg. Corp.

FEED SYSTEMS, ANTENNA
See ANTENNA FEED SYSTEMS

FEEDERS, ASSEMBLERS
See ASSEMBLERS, FEEDERS

FIBRE GROMMETS
See GROMMETS, FIBRE

FIELD EXCITERS
See EXCITERS, FIELD

FILES

Barrett-Christie Co.
Bergen Carbide Co.
Deluxe Metal Products Co.
Handicraft Tools, Inc., Div.-X-Acto, Inc.
Simonds Saw & Steel Co.

FILM, MAGNETIC STRIPE

Bell & Howell Co.
Eastman Kodak Co.
Minnesota Mining & Mfg. Co.
Vitro Labs.

FILMS, CAPACITOR

Aerovox Corp.
Allied Plastics Supply Corp.
Continental Diamond Fibre Corp.
Dilectrix Corp.
Double E Products Co.
E. I. Du Pont De Nemours & Co. Inc.
Mica Fabricating Co.
Natvar Corp.
Permacel
Tapco Group, Thompson-Ramo-Wooldridge Inc.
Vitro Labs.

FILMS, PLASTIC FOR WOUND INSULATION

***ALLIED CHEMICAL CORP., GENERAL CHEMICAL DIV.**
Chemplast, Inc.
Continental Diamond Fibre Corp.
Dilectrix Corp.
E. I. Du Pont De Nemours & Co. Inc.
Franklin Fibre-Lamitex Corp.
Joclin Mfg. Co.
Mica Fabricating Co.
Minnesota Mining & Mfg. Co.
Orbitron Co., Inc.
Permacel
Picker X-Ray Corp.
Polyken Sales Div., The Kendall Co.
Polymer Corp., The
Sanford Plastics Corp.
Sparta Mfg. Co., Div.-U.S. Ceramic Tile Co.
Turbo Products, Inc.
United States Rubber Co.

FILTERS

a. **Air**
b. **Antenna**
c. **Audio**
d. **Band Elimination**
e. **Band Pass**
f. **Continuously Variable**
g. **Crystal**
h. **Detonation**
i. **Electric**
j. **Electric Wave Section**
k. **Equalizer**
l. **Fuel & Oil**
m. **High Pass**
n. **Hydraulic**
o. **IF**
p. **Interference**
q. **Line**
r. **Low Pass**
s. **Measurement**
t. **Mechanical**
u. **Microwave**
v. **Needle Scratch**
w. **Noise Suppressing**
x. **Optical**
y. **Pneumatic System**
z. **Polarizing**
a1. **Radio**
b1. **Radio Noise**
c1. **Radio Range**
d1. **Radio Tower Lighting**
e1. **RF**
f1. **Telemetering**
g1. **UHF & VHF**
h1. **Vacuum System**
i1. **Variable Electronic**
j1. **Vestigial Sideband**
k1. **Wave Trap**

ACF Industries Inc., a, l, n. y.
Accessory Products Co., Div.-Textron Inc., a, l, n.
Actuation Research Corp.
R.*P. Adams Co., Inc., a, y.
Adler Electronics, Inc., b, d, e, m, r, u, g-1.
Aero Supply Mfg. Inc., a, l, n.
Aerovox Corp., c, d, h, i, j, m, o, q, r, c-1, e-1.
Air Filter Corp., a.
Airoterra, l, n.
Airborne Accessories Corp., i, w, b-1.
Aircom Inc., b, u.
Aircraft Porous Media, Inc., a, l, n, y.
***AIRESEARCH MFG. CO. OF ARIZ.**, v, b-1.
***AIRESEARCH MFG. CO., DIV.-THE GARRETT CORP.**, b-1.
Air-Maze Corp., a, l, n, t, y.
Airtron Inc., Div.-Litton Industries, u.
Airtronics International Corp., d, e, m, r.
Alford Mfg. Co., r, j-1.
R. C. Allen Aircraft Instr. Div., R. C. Allen Bus. Machines, Inc., b-1.
Allied Witan Co. Inc., a.
Allison Labs., c thru f, m, r.
All-Tronics, Inc., p, w, b-1, e-1.
Alsop Engrg. Corp., l, n.
Alto Scientific Co., Inc., d, e, o, e-1, g-1.
Amelco, Inc., e.
Amerac Inc., u.
American Aeroparts, a, b, l, n, e-1, b-1.
American Air Filter Co., Defense Products Div., a.
American Bosch Arma Corp., l, w, b-1, e-1.
American Electronics, Inc., t.
American Electronics, Inc., Taller & Cooper Div., f-1.
American Machine & Foundry Co., Government Products Group, b, n.
American Missile Products Co., Inc., f-1.
American Optical Co., Instrument Div., x.
Andrew Corp., b.
Antenna & Radome Research Associates, u, e-1.
Astron Corp., e, m, p, r, w, b-1, e-1.
Atlantic Research Corp., x.
Audio Development Co., c, d, e, i, j, k, m, r, w, f-1.
Automation Dynamics Corp., f-1.
Axel Electronics, i, p, q, r, w, e-1, b-1, e-1.
Axler Associates Inc., p.
B & K Instruments, Inc., c, e.
Barker Sales Co., f-1, g-1, i-1, j-1, k-1.
Barker & Williamson Inc., b thru e, j, m, r, e-1, e-1, f-1, k-1.
Barnebey-Cheney Co., a.
Barrett-Christie Co., a, y.
***BAUSCH & LOMB OPTICAL CO.**, x, z.
Beach-Russ Co., h-1.
Bendix Filter Div., Bendix Aviation Corp., a, l, n, q, t, y.
Bendix-Pacific Div., Bendix Aviation Corp., e, r, f-1.
Bendix Utica Div., Bendix Aviation Corp., a, l, n, y.
Blonder-Tongue Labs., Inc., c thru f, q, r, w, e-1, b-1, e-1, g-1, i-1.
Bogart Mfg. Corp., u.

Bowser, Inc., Defense Dept., l, n, s, t, y.
Briggs Associates, Inc., e.
Briggs Filtration Co., The, a, l, n.
Budd Stanley Co. Inc., u.
Buhl Optical Co., x.
Bulova Watch Co., Electronics Div., d, e, g, m, o, p, r, s, w, a-1, b-1, c-1, e-1, f-1, j-1.
Burnell & Co., Inc., c, d, e, g, j, k, m, o, r, f-1, j-1, k-1.
Cable Electric Products Inc., i.
Cambridge Filter Corp., a, h-1.
Carruthers & Fernandez, Inc., c, e, q, r.
Celco (Constantine Engrg. Labs. Co.) a thru j, l, n thru q.
Centronix Inc., c, f-1.
Chicago Electronic Engrg. Co., Inc., e, r.
Chicago Standard Transformer Corp., c, d, e, m, r.
Christie Machine Works, l, n.
Cinema Engrg., c, e.
David Clark Co., Inc., w.
Clippard Instrument Lab., Inc., b, e, r, e-1.
Coil Co. of America, c.
Collins Radio Co., b thru e, t, u, d-1.
Commercial Filters Corp., a, l, n, t, y.
Communications Research Co., b, f-1.
Conoflow Corp., a, y.
Consolidated Diesel Electric Corp., l, n, y.
Consolidated Diesel Electric Corp., Test Equip. Div., n, y.
Coppus Engrg. Corp., a.
Cornelius Co., The, Aero Div., y.
Cornell-Dubilier Electric Corp., b thru f, m, o thru r, w, a-1, b-1, e-1.
Corning Glass Works, l, x.
Cuno Engrg. Corp., The, a, l, n, t, y.
Curtiss-Wright Corp., Research Div., f-1.
D. & R. Ltd., c, e, m, r.
Data-Control Systems, Inc., e, r, f-1.
Daven Co., The, c, d, e, g, m, o, r, e-1.
Dayton Aviation Radio & Equipment Corp., o, b-1, e-1, g-1.
Dayton Rubber Co., The, a, k.
Demornay-Bonardi, e, u.
Denison Engrg. Div., American Brake Shoe Co., n.
Diamond Antenna & Microwave Corp., b, e, g, r, u.
Dietz Design & Mfg. Co., c, d, e, i, j, k, m, o thru s, v, w, a-1, b-1, c-1, e-1, f-1, g-1, j-1, k-1.
Donner Scientific Co., c.
Double E Products Co., b thru e, m, o thru s, u, w, a-1, b-1, c-1, e-1, g-1, k-1.
Douglas Microwave Co., Inc., e, r, u.
Dresser Industries, Inc., c, d, e, i, j, m, p, q, r, f-1.
Dresser Mfg. Div., Dresser Industries, Inc.
Dumont Aircraft Fitting Co., l, n, t, y.
Dynamic Filters Inc., a, l, n, q, t.
Dynamics Instrumentation Co., Div.-Alberhill Corp., i-1.
Dytronics Co., c, e, f.
ESC Corp., d, e, i, j, k, r, f-1.
Eastman Kodak Co., p, x, z.
Edmund Scientific Co., x, z.
Electrical Windings, Inc., c.
Electro-Mechanical Products Co., b, f-1.
Electro-Mechanical Research, Inc., e, r, f-1.
Electron Products Co., p, b-1.
Electronic Communications, Inc., b, f, p, u, b-1, e-1, g-1, i-1.
Electronic Research Associates, Inc., r, b-1.
Electronic Specialty Co., d, e, r, t, g-1.
Electronic Transformer Co., Inc., b thru e, r.
Emerson Radio & Phonograph Corp., e, p, u, a-1, e-1, g-1.
Empire Products Sales Corp., d, e, r, u, g-1.
Entron, Inc., b, d, e, f, k, m, e-1, g-1, k-1.
FXR, Inc., e, u, e-1, g-1.
J. W. Fecker, Inc., x.
Ferrotron Electronics Co., Inc., d, e, i, o, r.
Filtron Co., Inc., b, d, e, i, m, o thru r, u, w, a-1, b-1, e-1, g-1.
Fisher Governor Co., a.
Fisher Scientific Co., h-1.
Fish-Schurman Corp., p, x.
Flow Corp., r.
Forbes & Wagner, Inc., c, d, e, m, r, e-1.
Foster Transformer Co., c, d, e, m, q, r.
Foto-Video Labs., Inc., e.
Fram Corp., a, l, n, q, x.
Freed Transformer Co. Inc., c, d, e, i, k, m, p, r, c-1, f-1.
Fugle-Miller Labs. Inc., d, e, j, m, o, r, e-1, k-1.
Gabriel Co., The, Gabriel Electronics Div., b, u, g-1.
Gardner-Denver Co., a, y.
General Devices, Inc., f-1.
General Filters, Inc., l, n.
Genistron, Inc., c, m, p, q, r, w, b-1, e-1.
Geotronic Labs. Inc.,c, d, e, i, j, q.
Gits Brothers Mfg. Co., a.
John Gombos Co., Inc., u.
Gordon Enterprises, x.
Gray Co., Inc., a, q.
Green Rectifier Co., r, x.
Greer Hydraulics, Inc., n.
Grimes Mfg. Co., x.
Gulton Industries, Inc., r.
Gyrex Corp., The, c, t.
Hagan Chemicals & Controls, Inc., a, l.
Hallamore Electronics Co., f-1.
Haller, Raymond & Brown Inc. Div., Singer Mfg. Co., b, d, e, e-1.
Hallett Mfg., Co., p, b-1.
Hallicrafters, b, e-1, j-1.
Hammarlund Mfg., Co., Inc., c, d, e, m, r.
Hannifin Co., Div.-Parker-Hannifin Corp., y, h-1.
Harmon Equipment Co., a, l, n, y, h-1.
Haskel Engrg. & Supply Co., a, l, n, y.
Haveg Industries, Inc., a.
Hayward Scientific Glass Corp., x.
Herlo Engrg. Corp.
Hewlett-Packard Co., e, r, z.
High Vacuum Equipment Corp., h-1.
Hill Electronics, Inc., c, d, e, g, i, m, o, p, r, w, e-1, f-1.
Hoke, Inc., q.
Hoover Electric Co., b-1, e-1.
Hughes Aircraft Co., g.
Hughey & Phillips, Inc., d-1.
Walter J. Hyatt Co., The, a, b, l, n, u, y, k-1.
Hydrodyne Corp., Skinner Seal Div., a, l, n, y.
ITT Federal Div., International Telephone & Telegraph Corp., b, u, e-1.
Imperial Brass Mfg. Co., The, l.
Instruments for Industry, Inc., b, d, e, i, j, k, m, o, p, r, a-1, b-1, e-1, f-1, g-1.
Interference Measurement Laboratory, Inc., p, q, r, w, b-1.
International Research & Development Corp., f, i-1.
JFD Electronics Corp., d, e, m, e-1, f-1, g-1.
J-V-M Microwave Co., d, r, u.
Jansky & Bailey, Inc., b-1.
Johnson Electronics Inc., d, n, p, q, z, e-1.
Kahn & Co., Inc., a, l, t, y.
Kauke & Co., r.
***KEARFOTT CO., INC., MICROWAVE DIV.**, e, u, e-1.
D. S. Kennedy & Co., b, u, z.
Kentucky Metal Products Co., b-1.
Keystone Products Co., c, d, e, i, j, m, r, k-1.
Kinney Mfg. Div., The New York Air Brake Co., h-1.
Koehler Aircraft Products Co., a, l, n, y.
Kopp Glass, Inc., x, d-1.
Lancaster Glass Corp., x.
Land-Air Inc., c-1, f-1, i-1.
Langevin Div., W. L. Maxson Corp., The, c, d, e.
Lear, Inc., b thru e, m, r, f-1, g-1.
Lear, Inc., Grand Rapids Div., b, d, p, b-1.
Warner Lewis Co., Div.-Fram Corp., l, n.
Librascope Inc., p, x.
Lieco, Inc., u.
Ling Electronics, Inc., r.
Litton Industries, Inc., f-1.
Litton Industries, Maryland Div., b, d, e, m, r.
Livingston Electronic Corp., a.
Lynch Carrier Systems Inc., d, e, j, k, m, q, r, f-1.
Magnavox Co., The, g-1.
Marvel Engrg. Co., l, n.
Mason-Neilan, a.
McCoy Electronics Co., d, e, g, m, r, a-1.
McMillan Industrial Corp., q, u, b-1, g-1.
Meridian Metalcraft, Inc., b, d, e, r, u, g-1.
Metal Textile Corp., Electronics Div., a, l.
Michigan Wire Cloth Co., l, n.
Microlab, d, e, j, m, r, u, a-1, b-1, e-1, g-1, k-1.
Microwave Associates, Inc., e, u, e-1.
Microwave Development Labs., Inc.,
Midland Mfg. Co., Inc., g.
Midwestern Instruments, Inc., f-1.
J. W. Miller Co., b, d, e, m, o thru r, v, w, a-1, b-1, d-1, e-1, k-1.
Millipore Filter Corp., l, n, t.
Mine Safety Appliances Co., a, l.
Minitran Corp., c, d, e, k, m, r.
Minneapolis-Honeywell Regulator Co., Aeronautical Div., a.
Minneapolis-Honeywell Regulator Co., Industrial Product Group, y.
Miratel, Inc., c, e, o, u, e-1, g-1, k-1.
Monogram Precision Industries, a, b, d, e, j, t, u, x, z.
Motorola Inc., Military Electronics Div., b thru g, i, m, o thru r, t, u, w, a-1, b-1, e-1, f-1, g-1, i-1, j-1.
Mutron Corp., a.
NYT Electronics, Inc., c, d, e, i, j, k, m, o, r, e-1, f-1.
Narda Microwave Corp., The, u.
Narmco Mfg. Co., b.
National Coil Co., c, d, e, m, o thru r, b-1, c-1.
National Pneumatic Co., Inc., Holtzer-Cabot Divs., a thru e, g, i, m, o thru r, w, a-1, b-1, e-1, f-1, g-1.
National Research Corp., h-1.
Networks Electronic Corp., c, d, e.
New York Transformer Co. Inc., c, d, e, i, j, k, m, r, f-1.
Newark Wire Cloth Co., l.
North Hills Electric Co., Inc., c, d, e, i, j, k, m, o, q, r, e-1, f-1, j-1, k-1.
O & S Research, Inc., x.
Optical Coating Lab., Inc., p, x.
Orbitron Co., Inc., r.
Ortho Filter Corp., b thru e, g thru k, m, o, q, r, s, u, b-1, c-1, e-1, f-1, g-1, j-1, k-1.
Palo Alto Engrg. Co., c, d, e, p, q, r, w.
Ralph M. Parsons Co., The, Electronics Div., b, e, e-1, f-1, j-1.
Philco Corp., Government & Industrial Div., a, b, e, o, p, q, u, a-1, b-1, e-1, f-1, g-1, i-1.
Polarad Electronics Corp., u.
Polaroid Corp., z.
Portchester Instrument Corp., b, d, m, r, u.
Potter Co., The, e, m, p, q, r, w, b-1.
Power-Tronic Systems Inc., c thru f, k, r, s, t.
Precise Development Corp., r, v.
Precision Equipment Co., Inc., a, l, n, t.
Puritan Compressed Gas Corp., Aviation Div., h-1.
Purolator Products Inc., a, l, n, q, t, y.
RS Electronics Corp., o, e-1.
Radar Design Corp., u.
Radar Relay, Inc., b-1.
Radex Corp., a, i.
Radiation, Inc., f-1.
Radiatronics, Inc., b, d, e, r thru u, e-1, f-1, g-1.
Railway Communications Inc., e, m, r.
Raytheon Mfg. Co., t.
Reeves-Hoffman Div., d, e, g, k.
Research Products Corp., a.
Riverbank Labs., Dept.-Engrg., e.
Rixon Electronics Inc., c, d, e, m, p, r, j-1.
Robbins Aviation, Inc., a.
Rollan Electric Co., e.
Royal Industries, Inc., f-1.
Roylyn Inc., l, n.
Rytron Co., Inc., d, e, k, m, o, r, e-1, f-1.
Sage Labs., Inc., e, g, m, r, u, e-1.
Sage-Craft, Inc., q, e-1, g-1.
St. Marys Carbon Co., a, l, n, t.
San Fernando Electric Mfg., Co., p, w, b-1.
Sangamo Electric Co., d, e, m, p thru s, w, k-1.
Sargent Engrg. Corp., n.
H. H. Scott, Inc., c, e, m, r, w.
Shannon Luminous Materials Co., d, e.
Sioux Oil Co., l.
A. O. Smith Corp. – Smith-Erie Div., l.
Southwestern Industrial Electronics Co., d, e, f, m, r.
Sparkler-Filtrion Corp., l, n.
Spectrum Instruments, Inc., c thru f, i, r, w, f-1, i-1.
Superex Electronics Corp., b, q, r, a-1, e-1.
Superior Pneumatic & Mfg., Inc., a.
Systems Inc., g.
Technical Apparatus Builders, p, q, w, b-1.
Telechrome Mfg. Corp., d, e, k, m, o, r, u, e-1, f-1, g-1, i-1, j-1, k-1.
Telectro Industries Corp., b thru g, i, j, k, o thru s, w, a-1, b-1, c-1, e-1, f-1, g-1, j-1, k-1.
Telerad Mfg. Corp., e, u.
Telonic Industries, Inc., e, m, r, e-1.
Tinsley Labs., Inc., x.
Tobe Deutschmann Corp., b, d, e, i, j, k, m, o thru r, u, w, a-1, b-1, c-1, e-1, g-1, k-1.
Torwico Electronics, Inc., c, e, m, r.
Tower Mfg. Corp., l.
Transco Products, Inc., b, e-1.
Transonic, Inc., c, d, e, i, j, k, m, r, s, a-1, f-1.
Triad Transformer Corp., c, d, e, j, k, m, r, f-1, j-1.
Turbo Machine Co., u.
United Aircraft Products, Inc., l, n.
United Electrodynamics, Inc., e, r, f-1.
United Transformer Co., c thru f, i, j, k, q, r, u, c-1, f-1, i-1, j-1, k-1.
Universal Dynamics Corp., y.
Universal Toroid Coil Winding, Inc., d, e, f, r, e-1.
University Loudspeakers, Inc., c.
Vanguard Electronics Co., b, d, e, m, o, r, e-1, k-1.
Varo Mfg. Co., Inc., e, m, o, r, e-1.
Vickers Inc., Marine & Ordnance Dept., Machinery Hydraulics Div., n.
Victor R. F. & Microwave Co., u.
Warren Transformer Co., Inc., c, d, e, p, q, r, b-1, e-1.
Waveline, Inc., u.
Wenzlau Engrg. Co., l.
Westbury Electronics Inc., m, r.
Westinghouse Air Brake Co., Industrial Products Div. q, y.
Wheeler Electronic Corp., Sub.-Sperry Rand Corp., c, d, e, i.
Wheeler Laboratories, Inc., u.
Winslow Engrg. & Mfg. Co., l, n.
Winzen Research Inc., f-1.
Zenith Optical Laboratory, x.

FINDERS, RANGE

American Cystoscope Makers, Inc.
American Optical Co., Instrument Div.
***BAUSCH & LOMB OPTICAL CO.**
Bendix Radio Div., Bendix Aviation Corp.
J. W. Fecker, Inc.
Ford Instrument Co., Div.-Sperry Rand Corp.
Gordon Enterprises
Graflex Inc.
Kollmorgen Optical Corp.
Motorola Inc., Military Electronics Div.
Northrop Corp., The, Nortronics Div.
Philco Corp., Government & Industrial Div.
Telectro Industries Corp.
Webcor, Inc., Government Div.

FINDERS, VIEW

American Optical Co., Instrument Div.
***BAUSCH & LOMB OPTICAL CO.**
Buhl Optical Co.
Dockendorff & Co. Inc.
J. W. Fecker, Inc.
Gordon Enterprises
Graflex Inc.
Traid Corp.

FINISHERS, PLASTIC

Dennis Chemical Co.
Duralith Corp.
General Plastics Corp. of New Jersey
Hardman Tool & Engrg., Co.
Minnesota Mining & Mfg. Co.
Panel Engrg. Corp.
Perry Plastics, Inc.
Turbo Products, Inc.
Waterbury Companies, Inc.

FINISHES

a. **Crystal**
b. **Luminous Materials**
c. **Ripple**
d. **Wrinkle**

Bios Labs., Inc., b.
Canadian Radium & Uranium Corp., b.
Lofstrand Co., The, c, d.
Maas & Waldstein Co., c, d.
Minnesota Mining & Mfg. Co., b.
National Pneumatic Co., Inc., Holtzer-Cabot Divs., b, d.
Panel Engrg. Corp., b.
Shannon Luminous Materials Co., b.
United States Radium Corp., b.
Vapor Blast Mfg. Co.

FINS

American Brake Shoe Co.
American Car & Foundry, Div.-ACF Industries, Inc.
Anchor Metal Spinning Co., The
***AVCO MFG. CORP., CROSLEY DIV.**
Brooks & Perkins, Inc.
Carmac Aviation
Clark-Aiken Co., The
Continental Can Co., Inc.
Curtiss-Wright Corp., Santa Barbara Div.
Curtiss-Wright Corp., Wright Aeronautical Div.
Diversey Engrg. Co.
Ferris-Mfg. Co., The
Fletcher Mfg. Co., Inc., The
Graflex Inc.
Hardman Tool & Engrg. Co.
Haveg Industries, Inc.
Ludwig Honold Mfg. Co.
Hughes Tool Co., Aircraft Div.
Intercontinental Mfg. Co., Inc.
Jarvis Corp.
Kaiser Aircraft & Electronics, Div.-Kaiser Industries Corp.
Kaiser Metal Products, Inc.-Fleetwings Div.
Kanarr Corp.
Kelsey-Hayes Co.
***LAVELLE AIRCRAFT CORP.**
Lofstrand Co., The
Longren Aircraft Co., Inc.
Magline Inc.
Marlo Coil Co.
Minnesota Mining & Mfg. Co.
Monogram Precision Industries
Narmco Mfg. Co.
Norris-Thermador Corp.
Precision Shapes, Inc.
Precision Sheet Metal, Inc.
Red Lion Cabinet Co., Redco Tool Div.
***RHEEM MFG. CO., DEFENSE & TECHNICAL PRODUCTS DIV.**
Santa Anita Engrg. Co.
Solar Aircraft Co.
Sperry Piedmont Co. – Div.-Sperry Rand Corp.
Stanley-Judd Div.-The Stanley Works
Universal Moulded Products Corp.
Wheland Co., The
Winder Aircraft Corp. of Florida
Young Development Div., Hercules Powder Co.

FIRE

a. **Alarm Systems**
b. **Detectors**
c. **Extinguishing Systems**
d. **Protection Systems**

Accessory Products Co., Div.-Textron Inc., c.
Akron Brass Mfg. Co., Inc., c, d.
American Aeroparts, a, b, c.
Ansul Chemical Co., c.
***ARNOUX CORP.**, a, b.
Cardox Div., Chemetron Corp., c, d.
Thomas A. Edison Ind. Instrument Div.-McGraw-Edison Co., a, b, d.
Electronic Control Corp., a, b, d.
***ETS-HOKIN & GALVAN**, a thru d.
Fenwal Inc., a thru d.
G. W. Galloway Co., c.
Gamewell Co., The, a.
General Fire Extinguisher Corp., The, c, d.
Grinnell Co., a thru d.
Hesco Engrg., a, b.
Hoffman Electronics Corp., Semiconductor Div., b.
ITT-Kellogg, a.
Iron Fireman Mfg. Co., Electronics Div., b.
Walter Kidde & Co., Inc., Aviation Div., a thru d.
Mack Trucks, Inc., Government Div., c, d.
Minneapolis-Honeywell Regulator Co.-Aeronautical Div., b.
National Foam System, Inc., c.
North Electric Co., a.
Richards-Wilcox Mfg. Co., b.
Royal Industries, Inc., b, d.
Scaico Controls, Inc., b.
Space Corp., c, d.
Spraying Systems Co., c.
Sun Electric Corp., Aeronautical Div., a.
United Electric Controls Co., a.

FIRE STANDS, MISSILE

ACCO Equipment Div., American Chain & Cable Co., Inc.
Aerojet-General Corp.
American Aeroparts
American Machine & Foundry Co., Greenwich
Associated Engineers, Inc.
Astronautics Engrg. Co.
Basic Tool Industries, Inc.
Champion Co., The
C. B. Christiansen Co.
Conco Engrg. Works
Crane Carrier Corp.
Cromer Mfg. & Engrg., Inc.
Dresser-Ideco Co., Div.-Dresser Industries, Inc.
Dyna-Therm Chemical Corp.
G. W. Galloway Co.
Paul Hardeman, Inc.
Hardman Tool & Engrg., Co.
Intercontinental Mfg. Co., Inc.
Kaiser Aircraft & Electronics, Div.-Kaiser Industries Corp.
Monogram Precision Industries
Norton Co., New Products Dept.
Opelika Welding, Machine & Supply Inc.
Philips & Davies Inc.
Space Corp.
Thiokol Chemical Corp., Hunter-Bristol Div.
Twin Coach Co., Aircraft-Missiles
United Aircraft Products, Inc.
Washington Aluminum Co., Inc.
Washington Technological Associates Inc.
Welded Construction Inc.
Wheland Co., The

FIRE WALLS

Basic Tool Industries, Inc.
Benson Mfg., Co., The
Colonial Aircraft Corp.
Fletcher Mfg. Co., Inc., The
G. W. Galloway Co.
Haveg Industries, Inc.
Johns-Manville
Kaiser Aircraft & Electronics, Div.-Kaiser Industries Corp.
Kentucky Metal Products Co.
***LAVELLE AIRCRAFT CORP.**
Monogram Precision Industries
Narmco Mfg. Co.
Penn-Michigan Mfg. Corp.
Ryan Aeronautical Co.
Solar Aircraft Co.
Stainless Steel Products, Inc.
H. I. Thompson Fiber Glass Co.
Twin Coach Co., Aircraft-Missiles

FIRING PLATFORMS
See PLATFORMS, FIRING

FIRING STAND ACCESSORIES

Accessory Products Co., Div.-Textron Inc.
American Aeroparts
American Instruments Co., Inc.
American Machine & Foundry Co., Greenwich
Astronautics Engrg. Co.
Basic Tool Industries, Inc.
Capital City Mfg. Co.
Clark-Aiken Co., The
Consolidated Diesel Electric Corp.
Cromer Mfg. & Engrg., Inc.
Diversey Engrg. Co.
Paul Hardeman, Inc.
Hardman Tool & Engrg., Co.
Horkey-Moore Associates
Houston Fearless Corp.
Hufford Corp., The
***HYDRO-AIRE CO., DIV.-CRANE CO.**
Hydromatics, Inc.
Kelsey-Hayes Co.
Mercury Tool & Mfg. Corp.
Minnesota Mining & Mfg. Co.
Monogram Precision Industries
George L. Nankervis Co.
Philips & Davies Inc.
Space Corp.
Thermal Refractories Corp.
Tranter Mfg., Inc.
***R. D. WERNER CO., INC.**
Wheland Co., The

FITTINGS & ACCESSORIES, ANTENNA
See ANTENNA FITTINGS & ACCESSORIES

FITTINGS, COAXIAL CABLE

Aircom Inc. of New Jersey
Coaxial Connector Co. Inc.
Dage Electric Co., Inc.
Thomas A. Edison Ind. Instrument Div.-McGraw-Edison Co.
Hallett Mfg., Co.
Kling Metal Spinning & Stamping Co.
Lucas Aircraft Supply Co.
Stanley-Judd Div.-The Stanley Works
Tapco Group, Thompson-Ramo-Wooldridge Inc.
United Supply Co.
Victor R. F. & Microwave Co.

FITTINGS, METALLIC

Accessory Products Co., Div.-Textron Inc.
Aircraft Fitting Co., The
Airdome Parts Co.
American Instruments Co., Inc.
American Standard Products, Inc.
Ampco Metal, Inc.
Anchor Coupling Co. Inc.
Amav Aircraft Associates, Inc.
Astronautics Engrg. Co.
Avico Corp.
Basic Tool Industries, Inc.
Best Aircraft Corp.
Breeze Corporations, Inc.
Bruce Engrg. Co.
Capewell Mfg. Co.
Capital City Mfg. Co.
Carmac Aviation
Century Fasteners Corp.
Chase Brass & Copper Co., Inc.
Clark-Aiken Co., The
Clippard Instrument Lab., Inc.
Collins Engrg. Corp.
Corbin Products Div.
Diversey Engrg. Co.
Dumont Aircraft Fitting Co.
***FLEXONICS CORP., AERONAUTICAL DIV.**
GAR Mfg. Corp.
Grinnell Co.
Hannifin Co., Div.-Parker-Hannifin Corp.
Hardman Tool & Engrg. Co.
Harvey Aluminum
International Nickel Co., The
Kaiser Aircraft & Electronics, Div.-Kaiser Industries Corp.
Kanarr Corp.
Kohler Co.
Ladish Co.
Lucas Aircraft Supply Co.
Mercury Tool & Mfg. Corp.
Mueller Brass Co.
Newton Hydraulic Tooling Co.
Norton Co., New Products Dept.
Parker Aircraft Co.
Parker Fittings & Hose Div., Parker-Hannifin Corp.
Peerless Machine Co.
Piasecki Aircraft Corp.
Precision Equipment Co., Inc.
Precision Shapes, Inc.
Rattan Mfg. Co., The
Shaw Metal Products Corp.
Smith-Morris Corp.
Stanley-Judd Div.-The Stanley Works
Tube-Turns Div., Chemetron Corp.
United Supply Co.
Variety Aircraft Corp.
W–S Fittings Works, Forge & Fittings Div., H. K. Porter Co. Inc.
***WEATHERHEAD CO., THE**
Western Arc Welding, Inc.

FITTINGS, NON-METALLIC

Airdome Parts Co.
American Standard Products, Inc.
Astronautics Engrg. Co.
Carmac Aviation
Chemplast, Inc.
Continental Rubber Works
Dresser Mfg. Div., Dresser Industries, Inc.
Gladding, McBean & Co.
Grinnell Co.
Haveg Industries, Inc.
Joclin Mfg. Co.
Johns-Manville
Keystone Electronics Corp.
Lamtex Industries, Inc.
Lucas Aircraft Supply Co.
Luzerne Rubber Co.
Mercury Tool & Mfg. Corp.
Mueller Brass Co.
National Beryllia Corp.
Piasecki Aircraft Corp.
Polymer Corp., The
Rattan Mfg. Co., The
Fred T. Roberts & Co.
Silicone Insulation, Inc.
United States Rubber Co.
United Supply Co.
Zippertubing Co., The

FLAMEHOLDERS, RAM JET

Aircraft Precision Products, Inc.
California Aircraft Products
Curtiss-Wright Corp., Research Div.
Curtiss-Wright Corp., Wright Aeronautical Div.
Finn Aeronautical Div., T. R. Finn & Co., Inc.
Hupp Aviation Co.
Kolcast Industries-Div.-Thompson Ramo Wooldridge Inc.
***LAVELLE AIRCRAFT CORP.**
***LYCOMING DIV., AVCO MFG. CORP.**
Marquardt Aircraft Co.
Mercury Tool & Mfg. Corp.
National Beryllia Corp.
Portland Copper & Tank Works Inc.
***RHEEM MFG. CO., DEFENSE & TECHNICAL PRODUCTS DIV.**
C. F. Roark Welding & Engrg. Co., Inc.
Ryan Aeronautical Co.
Solar Aircraft Co.
Thermal Refractories Corp.

FLANGES, MICROWAVE

Ainslie Corp.
Aircom Inc.
Aircom Inc. of New Jersey
Airtron Inc., Div.-Litton Industries
American Radar Components Inc.
Andrew Corp.
A. Biederman, Inc.

Carmac Aviation
Chase Brass & Copper Co., Inc.
Coaxial Connector Co. Inc.
Connector Corp. of America
Demornay-Bonardi
Diamond Antenna & Microwave Corp.
Douglas Microwave Co., Inc.
FXR, Inc.
John Gombos Co., Inc.
Walter J. Hyatt Co., The
I-T-E Circuit Breaker Co.
Lieco, Inc.
Mercury Tool & Mfg. Corp.
Microwave Associates, Inc.
Monogram Precision Industries
N.R.K. Mfg. & Engrg. Co.
Omega Labs., Inc.
Portchester Instrument Corp.
Telerad Mfg. Corp.
Turbo Machine Co.
United Aircraft Products, Inc.
Victor R. F. & Microwave Co.
Walworth Co. Electronics Div.
Waveline, Inc.
Western International Co.
Wilks Precision Instrument Co., Inc.

FLAT DIE FORGINGS
See FORGINGS, FLAT DIE

FLEXIBLE & COMPRESSIBLE DUCTS
See DUCTS, FLEXIBLE & COMPRESSIBLE

FLEXIBLE HEATING EQUIPMENT
See HEATING EQUIPMENT, FLEXIBLE

FLEXIBLE SHAFTS
See SHAFTS, FLEXIBLE

FLEXIBLE WAVEGUIDES
See WAVEGUIDES, FLEXIBLE

FLIGHT DIRECTORS

***AIRESEARCH MFG. CO., DIV.-THE GARRETT CORP.**
Bendix Aviation Corp., Eclipse-Pioneer Div.
Centronix Inc.
Communications Research Co.
ITT Labs.
Lear, Inc.
Lear, Inc., Grand Rapids Div.
Minneapolis-Honeywell Regulator Co.-Aeronautical Div.
Motorola Inc., Military Electronics Div.
Ryan Aeronautical Co.
Waldorf Electronics, Div.-F. C. Huyck & Sons

FLIGHT SIMULATION TEST CHAMBERS
See TEST CHAMBERS, FLIGHT SIMULATION

FLIGHT SIMULATORS
See SIMULATORS, FLIGHT

FLIGHT TERMINATION DEVICES
Aerojet-General Corp.
Centronix Inc.
ITT Labs.
Land-Air Inc.
Motorola Inc., Military Electronics Div.
Ryan Aeronautical Co.
Thiokol Chemical Corp., Hunter-Bristol Div.

FLOWMETERS, DIFFERENTIAL PRESSURE
Aeroscience, Inc.
Astronautics Engrg. Co.
Barton Instrument Corp.
A. Biederman, Inc.
Bowser, Inc., Defense Dept.
Bristol Co., The
Brooks Rotameter Co.
Centronix Inc.
Clary Dynamics
Dresser Industries, Inc.
Dresser Mfg. Div., Dresser Industries, Inc.
Dynametrics Corp.
Fischer & Porter Co.
Hagan Chemicals & Controls, Inc.
Hoke, Inc.
***WALLACE O. LEONARD, INC.**
Librascope Inc.
Litton Industries, Maryland Div.
Mason-Neilan
Meriam Instrument Co.
Minneapolis-Honeywell Regulator Co., Industrial Div.
Minneapolis-Honeywell Regulator Co., Industrial Product Group
George L. Nankervis Co.
National Instrument Laboratories, Inc.
Norwood Controls Unit Detroit Controls Div.
Rahm Instruments, Div.-American Machine & Metals, Inc.
Schutte & Koerting Co.
Southwestern Industrial Electronics Co.
Specialties, Inc.
Statham Instruments, Inc.
Textron Corp.
Trimount Instrument Co.
Wallace & Tiernan Inc.

FLOWMETERS, MASS RATE
Aero Research Instrument Co. Inc.
Aeroscience, Inc.
Astronautics Engrg. Co.
Avien, Inc.
Bendix Aviation Corp., Pioneer-Central Div.
Bowser, Inc., Defense Dept.
Bristol Co., The
Cox Instruments Div., George L. Nankervis Co.
Crescent Engrg. & Research Co.
Curtiss-Wright Corp., Electronics Div.
Decker Corp., The
Dresser Industries, Inc.
Dresser Mfg. Div., Dresser Industries, Inc.
Dynametrics Corp.
Fischer & Porter Co.
Flow Measurements Corp.
General Electric Co., Apparatus Sales Div.
Hagan Chemicals & Controls, Inc.
Hoke, Inc.
Korda Industries
Land-Air Inc.
Librascope Inc.
Litton Industries, Maryland Div.
Matheson Co., Inc., The
Minneapolis-Honeywell Regulator Co., Industrial Product Group
National Instrument Laboratories, Inc.
Ohmart Corp., The
Potter Aeronautical Corp.
Precision Thermometer & Instrument Co.
Revere Corp. of America
A. O. Smith Corp. – Smith-Erie Div.
Standard Controls, Inc.
Trans-Sonics, Inc.
Turbo Products, Inc.
Wallace & Tiernan Inc.
Waugh Engrg. Co.

FLOWMETERS, VOLUMETRIC
Air Logistics Corp.
American Measurement & Control, Inc.
Astronautics Engrg. Co.
Barton Instrument Corp.
Bristol Co., The
Brooks Rotameter Co.
Henry G. Dietz Co., Inc.
Dresser Industries, Inc.
Dresser Mfg. Div., Dresser Industries, Inc.
Dynametrics Corp.
Fischer & Porter Co.
Fisher Scientific Co.
Flow Measurements Corp.
Hagan Chemicals & Controls, Inc.
Hoke, Inc.
Litton Industries, Maryland Div.
Matheson Co., Inc., The
W. L. Maxson Corp., The
Meriam Instrument Co.
George L. Nankervis Co.
National Instrument Laboratories, Inc.
Potter Aeronautical Corp.
Revere Corp. of America
Selas Corp. of America
A. O. Smith Corp. – Smith-Erie Div.
Turbo Products, Inc.
Wallace & Tiernan Inc.
Waugh Engrg. Co.

FLUID METERING PUMP SYSTEMS
Adel Precision Products of California, Div.-General Metals Corp.
Aerojet-General Corp.
American Aeroparts
American Bosch Arma Corp.
***BENDIX AVIATION CORP., HAMILTON DIV.**
Bendix Utica Div., Bendix Aviation Corp.
Bowser, Inc., Defense Dept.
Chandler Evans Corp.
Delsen Corp.
Denison Engrg. Div., American Brake Shoe Co.
Eastern Industries Inc.
Electric Auto-Lite Co., The
Fischer & Porter Co.
G. W. Galloway Co.
***HYDRO-AIRE CO., DIV.-CRANE CO.**
Korda Industries
Lear Inc., Lear-Romec Div.
Minneapolis-Honeywell Regulator Co., Industrial Product Group
Ordnance Div.-Food Machinery & Chemical Corp.
Pesco Products Div.-Borg-Warner Corp.
Research Appliance Co.
Milton Roy Co.
A. O. Smith Corp.
A. O. Smith Corp. – Smith-Erie Div.
Wallace & Tiernan Inc.

FLUID MOTORS
Adel Precision Products of California, Div.-General Metals Corp.
American Bosch Arma Corp.
American Brake Shoe Co.
American Machine & Foundry Co., Government Products Group
***BENDIX AVIATION CORP., HAMILTON DIV.**
Cornelius Co., The, Aero Div.
Denison Engrg. Div., American Brake Shoe Co.
Eastern Industries Inc.
Electric Auto-Lite Co., The
General Electric Co., Apparatus Sales Div.
Hamilton Standard, Div.-United Aircraft Corp.
Hannifin Co., Div.-Parker-Hannifin Corp.
***HYDRO-AIRE CO., DIV.-CRANE CO.**
Lear, Inc.
Lear Inc., Lear-Romec Div.
Oil-Dyne, Inc.
Pesco Products Div.-Borg-Warner Corp.
Reinhold Engrg. & Plastics Co.
Sargent Engrg. Corp.
Stratos, Div.-Fairchild Engine & Airplane Corp.
Tapco Group, Thompson-Ramo-Wooldridge Inc.
Vickers Inc., Div.-Sperry Rand
Vickers Inc., Marine & Ordnance Dept., Machinery Hydraulics Div.
Watertown Div., The New York Air Brake Co.

FLUIDS, HYDRAULIC OILS, COOLANTS, ETC.
Anderson Oil & Chemical Co., Inc.
George Basch Co., The
***DOW CORNING CORP.**
E. I. DuPont de Nemours & Co. Inc.
R. M. Hollingshead Corp.
E. F. Houghton & Co.
ITT Labs.
MSA Research Corp.
Minnesota Mining & Mfg. Co.
Monsanto Chemical Co. - Organic Chemicals Div.
Pennsalt Chemicals Corp.
Shannon Luminous Materials Co.
Silicones Div.-Union Carbide Corp.

FLUORESCENT COMPOUNDS, PHOSPHORS
***ALLIED CHEMICAL CORP., GENERAL CHEMICAL DIV.**
Carl H. Biggs Co.
Bios Labs., Inc.
Borden Chemical Co.
Bram Metallurgical & Chemical Co.
Canadian Radium & Uranium Corp.
E. I. Du Pont De Nemours & Co. Inc.
General Electric Co., Lamp Metals & Components Dept.
Luminous Resins Inc.
Miller Dial & Nameplate Co.
Minnesota Mining & Mfg. Co.
Joseph E. Podgor Co., Inc.
Shannon Luminous Materials Co.
Sylvania Electric Products Inc., Chemical & Metallurgical Div.
Thomas Electronics, Inc.
***ULTRA-VIOLET PRODUCTS, INC.**
United Mineral & Chemical Corp.
United States Radium Corp.

FLUORINE, GAS & LIQUID
***ALLIED CHEMICAL CORP., GENERAL CHEMICAL DIV.**

FLUOROMETERS
Belmont Smelting & Refining Works, Inc.
Epic, Inc.
Fisher Scientific Co.
Photovolt Corp.

FLUX, BRAZING OR SOLDERING
Accurate Specialties Co. Inc.
All-State Welding Alloys Co., Inc.
Alpha Metals, Inc.
Aluminum Co. of America
American Brazing Alloys Co.
American Silver Co.
American Solder & Flux Co.
Ampco Metal, Inc.
Anchor Metal Co. Inc.
Barrett-Christie Co.
Blackstone Corp.
Bow Solder Products Co., Inc.
Bumley Battery & Mfg. Co., The
Chase Brass & Copper Co., Inc.
Curtiss-Wright Corp., Princeton Div.
Curtiss-Wright Corp., Research Div.
Dalweld Co. Inc.
Division Lead Co.
Dow Chemical Co., The
M. W. Dunton Co. Inc., The
E. I. Du Pont De Nemours & Co. Inc.
Engelhard Industries, Inc.
Handy & Harman
International Nickel Co., The
Johnson Mfg. Co., Inc.
Linde Co., Div.-Union Carbide Corp.
London Chemical Co., Inc.
Metals & Controls Corp., General Plate Div.
Mico Instrument Co.
Mueller Brass Co.
National Lead Co.
Solar Aircraft Co.
Strong Scott Mfg. Co., The
Superior Flux & Mfg. Co., The
United Wire & Supply Corp.
***WALL COLMONOY CORP., STAINLESS PROCESSING DIV.**
Wildberg Bros. Smelting & Refining Co.

FLYWHEELS
Curtiss-Wright Corp.-Wright Aeronautical Div.
Lovejoy Tool Co., Inc.
Mercury Tool & Mfg. Corp.
Staver Co., Inc., The
Western Iron & Foundry Co., Inc.

FOCUSING MAGNETS
See MAGNETS, FOCUSING

FOIL, ALUMINUM

Accurate Specialties Co. Inc.
Adept Industries Inc.
Alloys Unlimited Inc.
Aluminum Co. of America
American Silver Co.
Anchor Metal Co. Inc.
Belmont Smelting & Refining Works, Inc.
Bram Metallurgical & Chemical Co.
Hamilton Watch Co.-Industrial Div.
Kaiser Aluminum & Chemical Sales, Inc.
United Mineral & Chemical Corp.

FOIL, LEAD

Accurate Specalties Co. Inc.
Alloys Unlimited Inc.
American Smelting & Refining Co.
Anchor Metal Co. Inc.
Bar-Ray Products, Inc.
Division Lead Co.
National Lead Co.
St. John X-Ray Lab.
United Mineral & Chemical Corp.

FORCE MEASURING CELLS

B & F Instruments, Inc.
W. C. Dillon & Co., Inc.
Dynametrics Corp.
Revere Corp. of America
Space Corp.
Statham Instruments, Inc.

FORGINGS, DROP
See DROP FORGINGS

FORGINGS, FLAT DIE

Alco Products, Inc.
Allegheny Ludlum Steel Corp.
Aluminum Co. of America
American Aeroparts
American Brake Shoe Co.
American Car & Foundry, Div.-ACF Industries, Inc.
Billings & Spencer Co., The
Bridgeport Brass Co.
***CAMERON IRON WORKS, INC.**
Capewell Mfg. Co.
Clark Equipment Co.
Consolidated Industries, Inc.
Corbin Products Div.
Harvey Aluminum
Earle M. Jorgensen Co.
Kelsey-Hayes Co.
Ladish Co.
Charles E. Larson & Sons, Inc.
Midvale-Heppenstall Co.
National Forge Co.
Pettibone Mulliken Corp.
Rockwell-Standard Corp.
Steel Improvement & Forge., The
Tapco Group, Thompson-Ramo-Wooldridge Inc.
Vanadium-Alloys Steel Co.

FORGINGS, PRESS

ACF Industries Inc.
Alco Products, Inc.
Allegheny Ludlum Steel Corp.
Aluminum Co. of America
American Aeroparts
American Brake Co., The
American Brass Co., The
Billings & Spencer Co., The
Bridgeport Brass Co.
***CAMERON IRON WORKS, INC.**
Chase Brass & Copper Co., Inc.
Consolidated Industries, Inc.
Corbin Products Div.
Dresser Mfg. Div., Dresser Industries, Inc.
Harvey Aluminum
Earle M. Jorgensen Co.
Kaiser Aluminum & Chemical Sales, Inc.
Kelsey-Hayes Co.
Kohler Co.
Ladish Co.
Midvale-Heppenstall Co.
Mueller Brass Co.
National Forge Co.
Pettibone Mulliken Corp.
Rockwell-Standard Corp.
Scovill Mfg. Co.
Solar Aircraft Co.
Steel Improvement & Forge., The
Tapco Group, Thompson-Ramo-Wooldridge Inc.
Titan Metal Mfg. Co.
Transue & Williams Steel Forging Corp.
Tube-Turns Div., Chemetron Corp.
Vanadium-Alloys Steel Co.
Veet Industries
W-S Fittings Works, Forge & Fittings Div., H. K. Porter Co. Inc.

FORGINGS, SPECIAL ALLOYS

***CAMERON IRON WORKS, INC.**

FORGINGS, UPSET

ACF Industries Inc.
Alco Products, Inc.
Allegheny Ludlum Steel Corp.
Aluminum Co. of America
American Aeroparts
American Brake Shoe Co.
American Car & Foundry, Div.-ACF Industries, Inc.
American Steel Foundries, Hammond Div.
Billings & Spencer Co., The
Bridgeport Brass Co.
***CAMERON IRON WORKS, INC.**
Clark Equipment Co.
Commercial Shearing & Stamping Co.
Corbin Products Div.
Dresser Mfg. Div., Dresser Industries, Inc.
Endicott Forging & Mfg. Co., Inc.
Harvey Aluminum
Earle M. Jorgensen Co.
Kelsey-Hayes Co.
Ladish Co.
Midvale-Heppenstall Co.
Pettibone Mulliken Corp.
Rockwell-Standard Corp.
Scovill Mfg. Co.
Steel Improvement & Forge., The
Tapco Group, Thompson-Ramo-Wooldridge Inc.
Transue & Williams Steel Forging Corp.
Tube-Turns Div., Chemetron Corp.
Vanadium-Alloys Steel Co.
W-S Fittings Works, Forge & Fittings Div., H. K. Porter Co. Inc.

FORMS, UPSET

American Aeroparts
Bowser, Inc., Defense Dept.
Kling Metal Spinning & Stamping Co.
Ladish Co.
Monogram Precision Industries
Stanley-Judd Div.-The Stanley Works
Teiner Engrg. Corp.

FORMS, ANTENNA

Ainslie Corp.
Intercontinental Mfg. Co., Inc.
Isolantite Mfg. Corp.
Meridian Metalcraft, Inc.
National Beryllia Corp.
Turbo Machine Co.

FOUNTAINS
a. Drinking
b. Eye Wash
c. Eye-Face Wash
d. Portable Eye Wash

***HAWS DRINKING FAUCET CO., a thru d.**

FRAMES, GRID
See GRID FRAMES

FRAMES, MISSILE
See MISSILE FRAMES

FREQUENCY CALIBRATION SERVICES

A. Biederman, Inc.
Budelman Electronics Corp.
Data-Control Systems, Inc.
FXR, Inc.
General Electric Co., Apparatus Sales Div.
Gyrex Corp., The
Land-Air Inc.
Northern Engrg. Laboratories, Inc.
Weinschel Engrg.

FREQUENCY METERS

Acromag Inc.
Adler Electronics, Inc.
Aero Instrument Co.
Aircom Inc. of New Jersey
Airpax Electronics Inc. Seminole Div.
Amelco, Inc.
American Aeroparts
American Machine & Foundry Co., Government Products Group
Avtron Mfg., Inc.
Beckman Instruments, Inc., Berkeley Div.
Bristol Co., The
Budelman Electronics Corp.
Diamond Antenna & Microwave Corp.
Divco-Wayne Electronics Div., Divco-Wayne Corp.
Douglas Microwave Co., Inc.
Electro Precision Corp.
Electronic Applications, Inc.
Electronics Div., Van Norman Industries Inc.
Electro-Tech Equipment Co.
Engrg. Associates
Erie Resistor Corp.
FXR, Inc.
Federal Mfg. & Engrg. Corp.
General Communication Co.
General Electric Co., Apparatus Sales Div.
Helipot Div.-Beckman Instruments Inc.
Hewlett-Packard Co.
Kahn & Co., Inc.
Lampkin Labs., Inc., M.R. Div.
Lavoie Laboratories Inc.
Meridian Metalcraft, Inc.
Micrometrical Mfg. Co.
Microwave Associates, Inc.
Minneapolis-Honeywell Regulator Co., Davies Labs. Div.
Minneapolis-Honeywell Regulator Co., Industrial Div.
Minneapolis-Honeywell Regulator Co., Industrial Product Group
Narda Microwave Corp., The
National Electronics
Polytechnic Research & Development Co., Inc.
Radar Design Corp.
Sanborn Co.
Sperry Microwave Electronics Co., Div.-Sperry Rand Corp.
Sun Electric Corp., Aeronautical Div.
Systron Corp.
Technology Instrument Corp.
Telectro Industries Corp.
Telerad Mfg. Corp.
Varo Mfg. Co., Inc.
Wacline, Inc.
Waltham Electronics Corp.
Waveline, Inc.
Weston Instruments, Div.-Daystrom, Inc.
Wright Engrg. Co.

FUEL BLADDERS
See BLADDERS, FUEL

FUEL DISTRIBUTORS
See DISTRIBUTORS, FUEL

FUEL HANDLING EQUIPMENT

Aerojet-General Corp.
American Machine & Foundry Co., Government Products Group
Associated Engineers, Inc.
Bowser, Inc., Defense Dept.
Bruning Co., The
Buckeye Iron & Brass Works
Butler Mfg. Co.
J. C. Carter Co., The
Chandler Evans Corp.
Chrysler Corp., Defense Operations Div.
Components Corp.
Consolidated Diesel Electric Corp.
Consolidated Diesel Electric Corp., Western Div.
Crane Carrier Corp.
Cromer Mfg. & Engrg., Inc.
Curtiss-Wright Corp., Research Div.
Dresser Industries, Inc.
Eastern Industries Inc.
FWD Corp.
Flight Refueling, Inc.
G. W. Galloway Co.
Goodyear Aircraft Corp.
Goodyear Tire & Rubber Co., The, Aviation Products Div.
Hufford Corp., The
***HYDRO-AIRE CO., DIV.-CRANE CO.**
Hydromatics, Inc.
Jeffrey Mfg. Co., The
Lear, Inc.
Lear, Inc., Grand Rapids Div.
Lear Inc., Lear-Romec Div.
Longren Aircraft Co., Inc.
Mack Trucks, Inc., Government Div.
OPW-Jordan
Ordnance Div.-Food Machinery & Chemical Corp.
Parker Aircraft Co.
Project Fabrication Corp.
Purolator Products Inc.
Reaction Motors Div., Thiokol Chem. Corp.
Charles Ross & Son Co., Inc.
A. O. Smith Corp. - Smith-Erie Div.
Space Corp.
Stearns-Roger Mfg. Co.
Texas Metal & Mfg. Co., Inc.
Vickers Inc., Div.-Sperry Rand
Washington Technological Associates Inc.
Wayne Pump Co., The, Div.-Symington Wayne Corp.
Welded Construction Inc.

FUEL INJECTION SYSTEMS
See INJECTION SYSTEMS, FUEL

FUEL LINES

American Tube Bending Co., Inc.
Anaconda Metal Hose Div., The American Brass Co.
Arnolt Corp.
Avica Corp.
Consolidated Electrodynamics Corp., Rochester Div.
Cromer Mfg. & Engrg., Inc.
Dresser Mfg. Div., Dresser Industries, Inc.
Flexible Metal Hose Mfg. Co.
***FLEXONICS CORP., AERONAUTICAL DIV.**
Flight Refueling, Inc.
G. W. Galloway Co.
Imperial Brass Mfg. Co., The
Kaiser Aircraft & Electronics, Div.-Kaiser Industries Corp.
Lewis & Saunders
Pesco Products Div.-Borg-Warner Corp.
Precision Sheet Metal, Inc.
Reaction Motors Div., Thiokol Chem. Corp.
Stainless Steel Products, Inc.
Stalker Corp., The
Standard-Thomson Corp., Clifford Mfg. Co. Div.
Stearns-Roger Mfg. Co.
Wayne Pump Co., The, Div.-Symington Wayne Corp.
Woolf Aircraft Products, Inc.

FUEL PRESSURE WARNING UNITS
See WARNING UNITS, FUEL PRESSURE

FUEL SYSTEMS & EQUIPMENT
- a. Balancing Controls
- b. Flow Dividers or Distributors
- c. Injection Equipment
- d. Lines
- e. Mixture Controls, Automatic
- f. Pressure Gauges
- g. Pressure Warning Units
- h. Pumps
- i. Ratio Controllers
- j. Strainers

ACF Industries Inc., a, b, c, e thru j.
Accessory Products Co., Div.-Textron Inc., j.
Actuation Research Corp., j.
Adel Precision Products of California, Div.-General Metals Corp., h.
Aero Supply Mfg. Inc., a, b, e, j.
Aerojet-General Corp., a, h.
Aeroquip Corp., Jackson Div., d.
Aeroscience, Inc.
Airaterra, j.
***AIRESEARCH MFG. CO., DIV.-THE GARRETT CORP.**, e, h, i.
American Bosch Arma Corp., b, c, h, j.
American Machine & Foundry Co., Government Products Group, a.
American Tube Bending Co., Inc., d.
Ardmore Products
Associated Engineers, Inc., h.
Avica Corp., d.
Avien, Inc., a.
Badger Mfg. Co.
Barco Mfg. Co., d.
***BEATON & CORBIN MFG. CO., THE**, d.
***BENDIX AVIATION CORP., HAMILTON DIV.**, b, c, e, h, i.
Bendix Aviation Corp., Montrose Div., g.
***BENDIX PRODUCTS DIV., BENDIX AVIATION CORP.**, b, c, e.
Bendix Utica Div., Bendix Aviation Corp., b, h.
Bowser, Inc., Defense Dept., b, e, h, j.
Brooks Rotameter Co., i.
Byron-Jackson Pumps Inc., h.
California Aircraft Products, c.
J. C. Carter Co., The, h.
Chandler Evans Corp., a, b, c, e, g, h, i.
Christie Machine Works, h.
Chrysler Corp., Defense Operations Div.
Clary Dynamics, b, e, j.
Cleveland Pneumatic Industries, Inc., h.
Cole-Hersee Co., g.
Collins Engrg. Corp., h.
Consolidated Controls Corp., f, g, i.
Consolidated Diesel Electric Corp., a, b, e, f, g, i, j.
Cromer Mfg. & Engrg., Inc., d.
Cuno Engrg. Corp., The, j.
Curtiss-Wright Corp., Santa Barbara Div., h.
Curtiss-Wright Corp., Wright Aeronautical Div., a thru e.
Delavan Mfg. Co., b, c.
Dresser Industries, Inc., c, h.
Dresser Mfg. Div., Dresser Industries, Inc.
Dumont Aircraft Fitting Co., b, e, g, j.
Dynamic Controls Corp., g, i.
Eastern Industries Inc., h.
Eddington Metal Specialty Co., b, c, j.
Engineered Products Co., The, b, c.
Essex Mfg., Co., Inc., g.
Fischer & Porter Co., i.
Flexible Metal Hose Mfg. Co., d.
***FLEXONICS CORP., AERONAUTICAL DIV.**, d.
Flight Refueling, Inc., a, b, d.
G. W. Galloway Co., a thru j.
General Electric Co., Apparatus Sales Div., h.
Hamilton Standard, Div.-United Aircraft Corp., a, e, i.
Paul Hardeman, Inc.
Harman Equipment Co., j.
Holley Carburetor Co.
Hufford Corp., The, a thru j.
Hupp Aviation Co., h
***HYDRO-AIRE CO., DIV.-CRANE CO.**, b, h.
Hydrodyne Corp., Skinner Seal Div., h, j.
Hydromatics, Inc., e, i.
Imperial Brass Mfg. Co., The, d.
Kemp Aero Products, b, h.
Koehler Aircraft Products Co., b, j.
Korda Industries, a, b, c, e, h, i.
Land-Air Inc., a, e.
Lear, Inc., h.
Lear, Inc., Grand Rapids Div., c, h.
Lear Inc., Lear-Romec Div., b, h.
Lee Co., The, b, c, e.
Marquardt Aircraft Co., a, b, c.
Michigan Wire Cloth Co., j.
Minneapolis-Honeywell Regulator Co., Industrial Product Group, f.
National Airoil Burner Co., h.
Norwood Controls Unit Detroit Controls Div., f, g.
OPW-Jordan, j.
Orchard Industries, Inc., Actionflex Div., d.
Ordnance Div.-Food Machinery & Chemical Corp.
Parker Aircraft Co., b, c, e, g, i, j.
Parts Engrg. Co., Inc., c.
Pesco Products Div.-Borg-Warner Corp., h.
Pneu-Hydro Valve Corp., a, b, e.
Potter Aeronautical Corp., i.
Precision Sheet Metal, Inc., d.
Project Fabrication Corp., d, h.
Racine Hydraulics & Machinery Inc., h.
Rahm Instruments, Div.-American Machine & Metals, Inc., f.
Reaction Motors Div., Thiokol Chem. Corp., h.
Republic Mfg. Co., b, g.
Rocketdyne Div.-North American Aviation, Inc.
Roylyn Inc., j.
St. Marys Carbon Co., j.
Servomechanisms, Inc., a, f.
Simmonds Aerocessories, Inc., c, h.
A. O. Smith Corp., h.
Southwestern Industries, Inc., d.
Spraying Systems Co., j.
Stainless Steel Products, Inc., d.
Standard-Thomson Corp., Clifford Mfg. Co. Div., e, g.
A. U. Stone & Co., Inc., b.
Stratos, Div.-Fairchild Engine & Airplane Corp., a, b.
Systron Corp., i.
Tapco Group, Thompson-Ramo-Wooldridge Inc., b, h.
Turbo Products, Inc.
United Aircraft Products, Inc., b, c, e, h.
United Electric Controls Co., g.
Universal Metal Products Inc., j.
Valcor Engrg. Corp., b, c.
Vickers Inc., Div.-Sperry Rand, h.
Waldorf Fluid Systems. Div.-F. C. Huyck & Sons, b.
Wayne Pump Co., The, Div.-Symington Wayne Corp., h.
***WEATHERHEAD CO., THE**, d.
Westronics Inc., a.
Wilks Precision Instrument Co., Inc., h.

FUELING LADDERS
See LADDERS, FUELING

FUELS, LIQUID
***ALLIED CHEMICAL CORP., GENERAL CHEMICAL DIV.**

FUELS, SOLID
Aerojet-General Corp.
***AMERICAN POTASH & CHEMICAL CORP.**
American Rocket Co.
Astrodyne, Inc.
Atlantic Research Corp.
Bios Labs., Inc.
Callery Chemical Co.
Continental Aviation & Engrg. Corp.
Dynamic Devices, Inc.
Escambia Chemical Corp.
Food Machinery & Chemical Corp.
Foote Mineral Co.
Fulton-Irgon Corp., The
Gabriel Co., The-Talco Engrg. Co. Div.
ITT Labs.
Kennedy Van Saun Mfg. & Engrg. Corp.
Oerlikon Tool & Arms Corp. of America
Olin Mathieson Chemical Corp., Energy Div.
Pennsalt Chemicals Corp.
***REDEL INC.**
Rohm & Haas Co., Redstone Arsenal Research Div.
Topper Mfg. Co., Inc.
Winder Aircraft Corp. of Florida

FURNACES
Airtemp Div., Chrysler Corp.
American Gas Furnace Co.
***AMERICAN POTASH & CHEMICAL CORP.**
Astravac Corp.
Blue M Electric Co.
Curtiss-Wright Corp., Santa Barbara Div.
Diversey Engrg. Co.
Engelhard Industries, Inc.
Fisher Scientific Co.
Gardner Laboratory, Inc.
General Electric Co., Apparatus Sales Div.
General Vacuum Corp.
Grieve-Hendry Co., Inc.
C. I. Hayes, Inc.
Hevi-Duty Electric Co.
High Vacuum Equipment Corp.
A. F. Holden Co., The
Huppert, K. H., Co.
Jet-Heet, Inc.
Kanthal Corp., The
Lindberg Engrg. Co.
John Mohr & Sons
NRC Equipment Corp.
National Airoil Burner Co.
National Beryllia Corp.
National Research Corp.
Pacific Scientific Co.
Papesch & Kolstad, Inc.
Edw. Renneburg & Sons Co.
Selas Corp. of America
Surface Combustion Corp.
Temperature Engrg. Corp.
Thermal Refractories Corp.
Thompson Engrg. Co., The, Missile Products Div.
United States Dynamics Corp.
Westinghouse Electric Corp.
Young Brothers Co.
Zirconium Corp. of America

FUSE HOLDERS
See HOLDERS, FUSE

GALVANOMETERS
Associated Research, Inc.
B & H Instrument Co., Inc.
Beede Electrical Instrument Co. Inc.
James G. Biddle Co.
Bristol Co., The
Brush Instruments, Div.-Clevite Corp.
Cambridge Instrument Co., Inc.
Centronix Inc.
Century Electronics & Instruments, Inc.
Consolidated Electrodynamics Corp.
Epic, Inc.
Fisher Scientific Co.
G-M Labs. Inc.
General Electric Co., Apparatus Sales Div.
Gordon Enterprises
Greibach Instruments Corp.
Hamilton Watch Co.
Hamilton Watch Co., Hathaway Instrument Div.
Hamilton Watch Co.-Industrial Div.
Heiland Div.-Minneapolis-Honeywell
Kin Tel Div.-Cohu Electronics, Inc.
Leeds & Northrup Co.
Massa Div.-Cohu Electronics, Inc.
Meters Inc.
Midwestern Instruments, Inc.
Minneapolis-Honeywell Regulator Co., Boston Div.
Minneapolis-Honeywell Regulator Co., Industrial Div.
Minneapolis-Honeywell Regulator Co., Industrial Product Group
National Electronics
New England Scientific Instruments Co.
Offner Electronics Inc.
Pace Electrical Instruments Co., Inc.
Photron Instrument Co.
Physics Research Laboratories, Inc.
Precise Development Corp.
Sanborn Co.
Shallcross Mfg. Co.
Simpson Electric Co.
Southwestern Industrial Electronics Co.
H. W. Sullivan Ltd.
Sun Electric Corp., Aeronautical Div.
Technology Instrument Corp.
Weston Instruments, Div.-Daystrom, Inc.

GAS ANALYZERS
American Electronics, Inc., Taller & Cooper Div.
Bristol Co., The
Cambridge Instrument Co., Inc.
Central Scientific Co.
Consolidated Electrodynamics Corp.
Davis Instruments
Engelhard Industries, Inc.
Epic, Inc.
Fisher Scientific Co.
Gardner Laboratory, Inc.
Hallikainen Instruments
Industrial Instruments Inc.
Jarrell-Ash Co.
Johnson-Williams, Inc.
Harold Kruger Instruments
Leeds & Northrup Co.
Mine Safety Appliances Co.
NRC Equipment Corp.
Perkin-Elmer Corp.
Pioneer Industries Div., Almar-York Co. Inc.
Process & Instruments
Sperry Gyroscope Co., Marine Div., Div.-Sperry Rand Corp.
Sperry Piedmont Co. - Div.-Sperry Rand Corp.
Sun Electric Corp., Aeronautical Div.
Thiokol Chemical Corp.
Victory Engrg. Corp.

GAS COMPRESSORS
See COMPRESSORS, GAS

GAS GENERATING DEVICES
Aerojet-General Corp.
Aro Equipment Corp.
Astrodyne, Inc.
Engelhard Industries, Inc.
Fisher Scientific Co.
General Electric Co., Apparatus Sales Div.
C. I. Hayes, Inc.
Hevi-Duty Electric Co.
Intercontinental Mfg. Co., Inc.
***JANITROL AIRCRAFT DIV., SURFACE COMBUSTION CORP.**
MSA Research Corp.
***MC CORMICK SELPH ASSOCIATES**
Mc Dowell-Wellman Companies, The
Olin Mathieson Chemical Corp., Energy Div.
Pressed Steel Tank Co.
Project Fabrication Corp.
***PROPELLEX CHEMICAL DIV., CHROMALLOY CORP.**
Reaction Motors Div., Thiokol Chem. Corp.
***REDEL INC.**
Rocketdyne Div.-North American Aviation, Inc.
Special Projects Lab., Food Machinery & Chemical Corp.
Surface Combustion Corp.
Thiokol Chemical Corp., Hunter-Bristol Div.
Waste King Corp., Technical Products Div.

GAS PRESSURE BOOSTERS
See BOOSTERS, GAS PRESSURE

GAS TURBINE ENGINE DIFFUSERS
See DIFFUSERS, GAS TURBINE ENGINE

GAS TURBINE ENGINE, ENGINE STARTING SYSTEMS & CONTROLS
See ENGINE STARTING SYSTEMS & CONTROLS, GAS TURBINE ENGINE

GAS TURBINE ENGINE EXHAUST CONES
See EXHAUST CONES, GAS TURBINE ENGINE

GAS TURBINE ENGINE ROTOR ASSEMBLIES
See ROTOR ASSEMBLIES, GAS TURBINE ENGINE

GASES, NITROGEN

Air Reduction Sales Co., Div.-Air Reduction Co., Inc.
Engelhard Industries, Inc.
Linde Co., Div.-Union Carbide Corp.
Matheson Co., Inc., The
Puritan Compressed Gas Corp., Aviation Div.
Trionics Corp.

GASES, RARE

Air Reduction Sales Co., Div.-Air Reduction Co., Inc.
Associated Engrg. & Mfg. Corp.
Linde Co., Div.-Union Carbide Corp.
Matheson Co., Inc., The

GASKET PASTE & CEMENT

Anchor Packing Co., The
Armstrong Cork Co.
Barrett-Christie Co.
Borden Chemical Co.
Samuel Cabot Inc.
Cooper Industries, Inc.
Crane Packing Co.
Dresser Mfg. Div., Dresser Industries, Inc.
Greene, Tweed & Co.
Johns-Manville
Johns-Manville Sales Corp.
Minnesota Mining & Mfg. Co.
Minnesota Mining & Mfg. Co.-Adhesives, Coating & Sealers Div.
Monogram Precision Industries
National Engrg. Products, Inc.
Parker Fittings & Hose Div., Parker-Hannifin Corp.
Permatex Co., Inc.
Products Research Co.
Saureisen Cements Co.
Smooth-On Mfg. Co.
Union Asbestos & Rubber Co.
Zophar Mills Inc.

GASKETS, METALLIC

Abbott Screw & Mfg. Co.
Acme Mfg. & Gasket Co.
Advanced Products Co., The
Aero Gasket Corp.
Airtron Inc., Div.-Litton Industries
All Specs Corp.
Allied Plastics Supply Corp.
Alloys Unlimited Inc.
Alpha Metals, Inc.
Alpitec, Inc.
American Aeroparts
Anchor Metal Co. Inc.
Anchor Metal Spinning Co., The
Anchor Packing Co., The
Auburn Mfg. Co., The
Bergen Carbide Co.
Capital City Mfg. Co.
Carmac Aviation
Corbin Products Div.
Division Lead Co.
Fletcher Mfg. Co., Inc., The
Gasket Mfg. Co. Inc.
General Gasket Inc.
Greene, Tweed & Co.
Hydrodyne Corp., Skinner Seal Div.
Johns-Manville
Johns-Manville Sales Corp.
Kentucky Metal Products Co.
Metal Textile Corp., Electronics Div.
Metallo Gasket Co.
Microwave Development Labs., Inc.
Pacific Cut Washer Co.
Penn Fibre & Specialty Co., Inc.
Rubber Teck Inc.
Staver Co., Inc., The
United Aircraft Products, Inc.
Victor Mfg. & Gasket Co.

GASKETS, NON-METTALIC

Acme Mfg. & Gasket Co.
Aero Gasket Corp.
Aircom Inc.
All Specs Corp.
Allied Plastics Supply Corp.
American Aeroparts
American Agile Corp.
American Felt Co.
Anchor Packing Co., The
Armstrong Cork Co.
Auburn Mfg. Co., The
Bergen Carbide Co.
Birma Mfg. Co. Inc.
Bonny Mfg. Corp.
W. H. Brady Co.
Chemplast, Inc.
Chicago Gasket Co.
Chicago Rawhide Mfg. Co.
Colonial Rubber Co.
Connecticut Hard Rubber Co., The
Continental Rubber Works
Cooper Industries, Inc.
Crane Packing Co.
Dresser Mfg. Div., Dresser Industries, Inc.
E. I. Du Pont De Nemours & Co. Inc.
Emerson Plastics Corp.
Excelsior Leather Washer Mfg. Co., Inc.
Felters Co., The
Fletcher Mfg. Co., Inc., The
Fluorocarbon Co., The
Fluorulon Labs., Inc.
Furane Plastics, Inc.
Gasket Mfg. Co. Inc.
General Gasket Inc.
General Plastics Corp. of New Jersey
B. F. Goodrich Industrial Products Co.
Goshen Rubber Co., Inc.
Greene, Tweed & Co.
Halogen Insulator & Seal Corp.
Hamilton Kent Mfg. Co.
Homalite Corp., The
E. F. Houghton & Co.
Integrated Mica Corp.
Jodee Plastics Co.
Johns-Manville
Johns-Manville Sales Corp.
Thomas J. Long, Inc.
M & Q Plastic Products
Metallo Gasket Co.
Mica Fabricating Co.
Mica Insulator Div.-Minnesota Mining & Mfg., Co.
Microwave Development Labs., Inc.
Minnesota Mining & Mfg. Co.
Minnesota Rubber Co.
New England Tape Co., Div.-United-Carr Fastener Corp.
Norton Co., New Products Dept.
Pacific Cut Washer Co.
Penn Fibre & Specialty Co., Inc.
Polymer Corp., The
Raybestos-Manhattan, Inc.
Raybestos-Manhattan, Inc., Pa.
Resistoflex Corp.
Rogers Corp.
Rubber Teck Inc.
Rubbercraft Corp. of California
Silicone Insulation, Inc.
Sparta Mfg. Co., Div.-U. S. Ceramic Tile Co.
Staver Co., Inc., The
Thermech Engrg. Corp.
Union Asbestos & Rubber Co.
Victor Mfg. & Gasket Co.
Waldom Electronics Inc.
Western Felt Works & Acadia Synthetic Products Div.
Westlake Plastics Co.
Wilmington Fibre Specialty Co.
Young Development Div., Hercules Powder Co.

GAUGES

a. Air Pressure
b. Compression
c. Differential Pressure
d. Displacement Measuring
e. Fuel Pressure
f. Fuel Quantity
g. Hydraulic Pressure
h. Liquid Level
i. Manifold Pressure
j. Oil Level
k. Oil Pressure
l. Outside Air Temperature
m. Pressure
n. Quantity
o. Strain
p. Suction
q. Tension
r. Thickness, Electronic
s. Torque Pressure
t. Ultrasonic Thickness

Allegany Instrument Co., Inc., o.
American Aeroparts, a, e thru n, p, q.
American Felt Co., m, o, r.
American Instruments Co., Inc., g, m, o, r.
Aro Equipment Corp., a, c, h, m.
Atlantic Research Corp., c, d, m.
Automation Products, Inc., h, j.
Avien, Inc., f, h, j, l.
B & F Instruments, Inc., q.
Barrett-Christie Co., a, g thru k, m.
Barton Instrument Corp., c, h, m.
Bearing Inspection, Inc.
Bendix-Aviation Corp., Pioneer-Central Div., h.
Boston Auto Gage Co., The, f, h. j.
Branson Instruments, Inc., r, t.
Bristol Co., The, a, c, g, l, m, o, p.
Brush Instruments, Div.-Clevite Corp., c, d, e, g, m, o, q, s.
Cleveland Instrument Co., d, r.
Collins Engrg. Corp., j.
Consolidated Controls Corp., a, e, g, k, m, p, s.
Consolidated Diesel Electric Corp., a, c, e, g, i, k, l, m, p.
Consolidated Electrodynamics Corp., c, d, m, o.
Curtiss-Wright Corp., Research Div., r.
Curtiss-Wright Electronics Div., IMI Branch, a, c, e, g, k, m.
Daytronic Corp., d, n, q, r.
Decker Corp., Th., c, d, r.
Delsen Corp., r.
Denison Engrg. Div., American Brake Shoe Co., h.
J. W. Dice Co., r, t.
Henry G. Dietz Co., Inc., a, c.
W. C. Dillon & Co., Inc., q, s.
Dynamic Instrument Co., Inc., a, c, d, g, i, m, o.
Thomas A. Edison Ind. Instrument Div.-Mc Graw-Edison Co., a, c, k, l, m, s.
Electro Auto-Lite Co., The, a, e, g, j thru m.
Electronic Control Corp., r.
Federal Products Corp., r.
Fischer & Porter Co., a, c, e thru k, m, n.
Fisher Scientific Co., a, m.
Fleetwood Labs., Inc., r.
Gardner Laboratory, Inc., r.
General Electric Co., Apparatus Sales Div., r.
General Electric Co., X-Ray Dept., h, r.
General Scientific Equipment Co., a.
Gilmore Industries, Inc., m, o.
Gits Brothers Mfg. Co., a, h, j, m.
Glassco Instrument Co., a, b, c, e, g, i, k, m.
Gulton Industries, Inc., m, r.
Hagan Chemicals & Controls, Inc., a.
High Vacuum Equipment Corp., a.
E. Vernon Hill & Co., a, l.
Hoke, Inc., a, m.
Imtra Corp., q.
Industrial Control Co., e.
Instruments Div.-Philips Electronics, Inc., r.
International Register Co., g, k, m.
Jerguson Gage & Valve Co., h.
Kollsman Instrument Corp., Sub.-Standard Coil Products Co., Inc., i, m, p.
Land-Air Inc., d, f, h, n.
***LEWIS ENGRG. CO., THE, l.**
Liquidometer Corp., The, h, n.
Magnaflux Corp., a, r, t.
Magnetic Instrument Co. Inc., f, h.
Jas. P. Marsh Corp., a, b, e, g, i, k, m.
Matheson Co., Inc., The, a, m.
Meriam Instrument Co., c, h, m.
Merz Engrg., Inc., r.
Minneapolis-Honeywell Regulator Co., Aeronautical Div., a, c, f, h, j, l, m, n.
Minneapolis-Honeywell Regulator Co., Industrial Product Group, a, c, e thru m, o, p, q.
NRC Equipment Corp., a, m.
National Research Corp., m.
Norwood Controls Unit Detroit Controls Div., a, b, c, g, h, i, k, m, o.
Ohio Semiconductors, Inc., d.
Ohmart Corp., The, h.
Owatonna Tool Co., g.
Pacific Scientific Co., l, p.
Photocon Research Products, d, o.
Puritan Compressed Gas Corp., Aviation Div., a.
Pyles Industries, Inc.
Republic Mfg. Co., h, j.
Revere Corp. of America, f, h, j.
Rochester Mfg. Co. Inc., a, c, e thru p.
Rosemount Engrg. Co., l, m.
Milton Roy Co., h.
Sanborn Co., c, d, m.
Schauer Mfg. Corp., b.
Scientific Instrument Co., a, c, l, m.
Sheffield Corp., The, Sub.-Bendix Aviation Corp., r.
Simmonds Aerocessories, Inc., d, f, h, j, n.
Snap-On-Tools Corp., b.
Sperry Products, Inc., r.
Squiers Gage Co., m, n, o.
Standard Controls, Inc., a, c, e, g, k, m.
Statham Instruments, Inc., a, c.
Sun Electric Corp., Aeronautical Div., b, i.
Taft-Peirce Mfg. Co., The, d, r.
Telechrome Mfg. Corp., d, g, l, m, o, q, s.
Thomas Electronics, Inc., r.
Uehling Instrument Co., a, c, f, h, i, j, m, p.
Unit Process Assemblies, Inc., r.
Varian Associates, p.
Wallace & Tiernan Inc., a, c, f, g, m, n, p.
Weston Instruments, Div.-Daystrom, Inc., m, p. r.
Wye Industries, t.

GAUSSMETERS

Device Development Corp.
Electro-Tech Equipment Co.
General Electric Co., Apparatus Sales Div.
Magnaflux Corp.
Ohio Semiconductors, Inc.
Rawson Electrical Instrument Co.
T-C Div., Dyna-Empire, Inc.
Varian Associates
Wright Engrg. Co.

GEAR ASSEMBLIES, LANDING
See LANDING GEAR ASSEMBLIES

GEAR ASSEMBLIES REDUCTION

Actuator Products Div., Geartronics Corp.
American Machine & Foundry Co., Government Products Group
Arch Gear Works Inc.
Atlantic Instrument Corp., Sub.-American Electronics, Inc.
Atlas Precision Products, Co.
Bendix-Pacific Div., Bendix Aviation Corp.
Boston Gear Works
Bowmar Instrument Corp.
Clark Equipment Co.
Consolidated Diesel Electric Corp.
Control Circuits Inc.
Crane Carrier Corp.
Cronome Inc.
Curtiss-Wright Corp.-Wright Aeronautical Div.
Divco-Wayne Electronics, Div.-Divco-Wayne Corp.
Dynamic Gear Co., Inc.
Thomas A. Edison Ind. Instrument Div.-McGraw-Edison Co.
Elgin Micronics Div.-Elgin National Watch Co.
Exact Engrg. & Mfg. Inc.

FWD Corp.
Fae Instrument Corp.
Feedback Controls, Inc.
Foote Bros. Gear & Machine Corp.
General Electric Co., Apparatus Sales Div.
Globe Industries, Inc.
Gordon Enterprises
Graflex Inc.
Grant Gear Works, Inc.
Hoffman Labs. Div., Hoffman Electronics Corp.
Hoover Electric Co.
Hupp Aviation Co.
Insco Co., Div.-Barry Controls Inc.
Instru-Lec Corp.
Juall Gear Co., Inc.
Kelsey-Hayes Co.
Link-Belt Co.
Lundy Mfg. Corp.
Lyndon Aircraft, Inc.
Merz Engrg., Inc.
Metron Instrument Co.
Newbrook Machine Corp.
PIC Design Corp., Sub.-Benrus Watch Co., Inc.
Perkins Machine & Gear Co.
Phillips Aviation Co.-Marples Gears
Piasecki Aircraft Corp.
Sargent Engrg. Corp.
Sier-Bath Gear & Pump Co., Inc.
Singer Mfg. Co., The, Military Products Div.
Southwestern Industries, Inc.
Spiroid Div., Illinois Tool Works
Sterling Precision Corp., Instrument Div.
Strong Scott Mfg. Co., The
Suffolk Products Corp.
Talley Corp., The
Telectro Industries Corp.
U. S. Gear Corp.
Vard Inc.
Vinco Corp.
Waldom Electronics Inc.
Washington Machine & Tool Works, Inc.
Western Design, Div.-U.S. Industries, Inc., Santa Barbara Div.
Western Gear Corp.
Westinghouse Electric Corp.
Wilks Precision Instrument Co., Inc.

GEARS, POWDERED METAL

American Aeroparts
Amplex Div.-Chrysler Corp.
Bassick Co., The, Div.-Stewart-Warner
Bergen Carbide Co.
Forsberg Mfg., Co., The
Globe Industries, Inc.
Globe Industries, Inc., Supermet Div.
Lux Clock Mfg. Co., Inc.
Mueller Brass Co.
Raybestos-Manhattan, Inc., Pa.
Milton Ross Metals Co., The
St. Marys Carbon Co.
Sier-Bath Gear & Pump Co., Inc.
Spiroid Div., Illinois Tool Works
Waltham Engrg. Corp.
Western Gear Corp.

GEARS, PRECISION

***AC ELECTRONICS DIV., GENERAL MOTORS CORP.**
American Aeroparts
American Machine & Foundry Co., Government Products Group
Arch Gear Works Inc.
Atlantic Instrument Corp., Sub.-American Electronics, Inc.
Atlas Precision Products, Co.
Beaver Gear Works, Inc.
Belock Instrument Corp.
Bergen Carbide Co.
Boston Gear Works
Bowmar Instrument Corp.
Camdale Precision Inc.
Curtiss-Wright Corp.-Wright Aeronautical Div.
Divco-Wayne Electronics, Div.-Divco-Wayne Corp.
Dockendorff & Co. Inc.
Dynamic Gear Co., Inc.
Thomas A. Edison Ind. Instrument Div.-McGraw-Edison Co.
Eisler Engrg. Co., Inc.
Elgin Micronics Div.-Elgin National Watch Co.
Enterprise Tool & Gear Corp.
Exact Engrg. & Mfg. Inc.
Fae Instrument Corp.
Feedback Controls, Inc.
Foote Bros. Gear & Machine Corp.
Ford Instrument Co., Div.-Sperry Rand Corp.
General Electric Co., Apparatus Sales Div.
Gordon Enterprises
Graflex Inc.
Grant Gear Works, Inc.
Helipot Div.-Beckman Instruments Corp.
Hoffman Labs. Div., Hoffman Electronics Corp.
Hoover Electric Co.
Hupp Aviation Co.
Walter J. Hyatt Co., The
Hydro Molding Co., Inc.
Instru-Lec Corp.
Juall Gear Co., Inc.
Kelsey-Hayes Co.
***LAVEZZI MACHINE WORKS**
Lear, Inc., Grand Rapids Div.
Lear Inc., Lear-Romec Div.
Librascope Inc.
Litton Industries, Maryland Div.
Lundy Mfg. Corp.
Lux Clock Mfg. Co., Inc.
***LYCOMING DIV., AVCO MFG. CORP.**
Massachusetts Gear & Tool Co.-Div.-Geartronics Corp.
W. L. Maxson Corp., The
Mercury Tool & Mfg. Corp.
Micron Gear Co., Inc.
National Pneumatic Co., Inc., Holtzer-Cabot Divs.
Northrop Corp., The, Nortronics Div.
PIC Design Corp., Sub.-Benrus Watch Co., Inc.
Perkins Machine & Gear Co.
Phillips Aviation Co.-Marples Gears
Reeves Instrument Corp.
Research Development Mfg. Inc.
Milton Ross Metals Co., The
Sargent Engrg. Corp.
Sier-Bath Gear & Pump Co., Inc.
Sphinx-American Co.
Spiroid Div., Illinois Tool Works
Sterling Precision Corp., Instrument Div.
Talley Corp., The
Tapco Group, Thompson-Ramo-Wooldridge Inc.
Telectro Industries Corp.
U. S. Gear Corp.
Vard Inc.
Vinco Corp.
Waltham Engrg. Corp.
Washington Machine & Tool Works, Inc.
Wesrep Corp.
Western Design, Div.-U.S. Industries, Inc.; Santa Barbara Div.
Western Gear Corp.
Wright Engrg. Co.

GEARS, RADIO & INSTRUMENT

Acton Labs. Inc.
Arch Gear Works Inc.
Atlantic Instrument Corp., Sub.-American Electronics, Inc.
Atlas Precision Products, Co.
Beaver Gear Works, Inc.
Bergen Carbide Co.
Divco-Wayne Electronics, Div.-Divco-Wayne Corp.
Dynamic Gear Co., Inc.
Thomas A. Edison Ind. Instrument Div.-McGraw-Edison Co.
Elgin Micronics Div.-Elgin National Watch Co.
Exact Engrg. & Mfg. Inc.
Feedback Controls, Inc.
Graflex Inc.
Grant Gear Works, Inc.
Hoover Electric Co.
Hydro Molding Co., Inc.
Instru-Lec Corp.
Juall Gear Co., Inc.
***LAVEZZI MACHINE WORKS**
Lear, Inc., Grand Rapids Div.
Massachusetts Gear & Tool Co.-Div.-Geartronics Corp.
Motorola Inc., Military Electronics Div.
National Pneumatic Co., Inc., Holtzer-Cabot Divs.
PIC Design Corp., Sub.-Benrus Watch Co., Inc.
Perkins Machine & Gear Co.
Phillips Aviation Co.-Marples Gears
Research Development Mfg. Inc.
Sphinx-American Co.
Spiroid Div., Illinois Tool Works
Telectro Industries Corp.
U. S. Gear Corp.
Vard Inc.
Vinco Corp.
Waldom Electronics Inc.
Waltham Engrg. Corp.
Washington Machine & Tool Works, Inc.
Western Gear Corp.

GENERATING DEVICES, GAS
See GAS GENERATING DEVICES

GENERATOR CONTROLS
See CONTROLS, GENERATOR

GENERATOR & MOTOR STATORS
See STATORS, MOTOR & GENERATOR

GENERATORS
a. Electric AC
b. Electric DC
c. Engine Driven
d. Liquid Oxygen
e. Liquid Oxygen, Mobile
f. Tachometer
g. Timing Marker

Aerojet-General Corp., a.
***AIRESEARCH MFG. CO. OF ARIZ., a, b.**
***AIRESEARCH MFG. CO., DIV.-THE GARRETT CORP., a, b, d, e.**
Allied International Co., a, b, c.
Allis-Chalmers, a, b, c.
American Aeroparts, a, b, e.
American Bosch Arma Corp., b, c.
American Electronics, Inc., Electric Machinery & Equipment Div., a, c.
American Machine & Foundry Co., Government Products Group, a, b.
Barber-Colman Co., f.
Barker Sales Co., c.
Beckman Instruments, Inc., Berkeley Div., f.
Bendix Aviation Corp., Montrose Div., f.
Bendix Aviation Corp., Red Bank Div., a, b, c.
Bogue Electric Mfg., Co., a, b.
Caterpillar Tractor Co., Engine Div., a, c.
Cedar Engrg. Div.-Control Data Corp., a, b, f.
Collins Engrg. Corp., g.
Columbia Electric Mfg. Co., a, b.
Consolidated Diesel Electric Corp., a, b, c.
Continental Electric Co., Inc., a.
Control Data Corp., a, b.
Cummins Engine Co., Inc., c.
Cortiss-Wright Corp., Research Div.
Curtiss-Wright Corp., Utica Div., c.
D. & R. Ltd., a, f.
Dalmotor Div., Yuba Consolidated Industries, Inc., a, b, c, f, g.
Daystrom Transicoil Div., Daystrom Inc., f.
Delco-Remy Div., General Motors Corp., a, b.
Detroit Diesel Engine Div.-General Motors Corp., c.
Diehl Mfg. Co., f.
Thomas A. Edison Ind. Instrument Div.-McGraw-Edison Co., f.
Eicor Div.-Scranton, a.
Electric Auto-Lite Co., The, b.
Electric Machinery Mfg. Co., c.
Electric Products Co., The, a, b, c.
Electro Products Laboratories, Inc., f.
***ETS-HOKIN & GALVAN, a, b, c.**
G-M Labs, Inc., f.
G. W. Galloway Co., e.
General Crystal Co., Inc., c.
General Electric Co., Apparatus Sales Div., a, b, c, f.
Gerator Corp., a, b, c, f.
Globe Industries, Inc., a, b, f.
Gordon Enterprises, g.
Graflex Inc., a, b.
Gremco, Inc., c.
Guided Missile Div.-De Havilland Aircraft of Canada, Ltd., a.
Hallamore Electronics Co., a.
***A. W. HAYDON CO., THE, f. g.**
Hertner Electric Co., The, a, b, c.
Hewlett-Packard Co., f.
Homelite, Div.-Textron Inc., a, b, c.
Hoover Electric Co., a, b, c, f.
Hughes Tool Co., Aircraft Div.
Industrial Test Equipment Co., a.
Instrument Motors, a, b, f.
Instruments Div.-Philips Electronics, Inc., d.
Jack & Heintz, Inc., a, b, c, f.
Jeta, Inc., a, b.
Katolight Corp., a, b, c.
***KEARFOTT CO., INC., a, b, f.**
Ketay Dept., Norden Div., United Aircraft Corp., f.
Kollsman Instrument Corp., Sub.-Standard Coil Products Co. Inc., f.
Land-Air Inc., g.
Leach Corp., a, b, c.
Lear, Inc., Grand Rapids Div., a, c.
Leland Airborne Products, Div.-American Machine & Foundry Co., a, b, c.
Linde Co.-Div.-Union Carbide Corp.
Luther Mfg. Co., a, b, f.
Meters Inc., f.
Microwave Development Labs., Inc.
Minneapolis-Honeywell Regulator Co., Industrial Product Group, f.
***MOTOR GENERATOR CORP., a, b.**
Motoresearch Co., a, b, c.
Heinz Mueller Eng. Co. Inc., a, b, f.
National Pneumatic Co., Inc., Holtzer-Cabot Divs., a thru f.
Ernest Norman Laboratories, g.
Oliver Corp., The, c.
D. W. Onan & Sons Inc., a, b, c.
Patterson, Moos Div. – Universal Winding Co., Inc., b.
Pesco Products Div.-Borg-Warner Corp.
Potter Aeronautical Corp., f.
Project Fabrication Corp., d, e.
Radionics, Inc., g.
Safety Electrical Equipment Corp., a, b, c.
Sangamo Electric Co. a, b, c.
Servomechanisms, Inc., Mechatrol Div., f.
Singer Mfg. Co., The, Military Products Div., f.
Small Motors Inc., a, b, f.
A. O. Smith Corp., a, b.
Stratos, Div.-Fairchild Engine & Airplane Corp., d.
Superior Air Products Co., d.
TKM Electric Corp., a.
Talley Corp., The, a, b, c, f.
Tapco Group, Thompson-Ramo-Wooldridge Inc., a, f.
Task Corp., a.
Telechrome Mfg. Corp., b, c, d, h, j, l, n, q.
Tempo Instrument Inc., g.
Wacline, Inc., f.
Western Design, Div.-U.S. Industries, Inc.; Santa Barbara Div., a, b, g.
Western Gear Corp., a, b.
Westinghouse Electric Corp., a, b, c.
Weston Instruments, Div.-Daystrom, Inc., f.
***WHITE DIESEL ENGINE DIV., THE WHITE MOTOR CO., a, b.**
Wincharger Corp., Sub.-Zenith Radio Corp., a, b, c.
Winpower Mfg. Co., a, b, c.
Zenith Radio Corp., c.

GENERATORS, ELECTRONIC
a. AM & FM
b. Microwave
c. Noise
d. Picture Signal
e. Pulse

f. Signal, AF
g. Signal, FM
h. Signal, RF
i. Signal, SHF
j. Signal, Single Sideband
k. Signal, Sweeping
l. Signal, Television Synchronizing
m. Signal, UHF, VHF
n. Square Wave
o. Ultrasonic
p. Variable Frequency
q. Waveform

AMP Inc., e.
Adler Electronics, Inc., a, g, h, j, m, q.
Aerolab Development Co., e, n.
Aetna Electronics Corp., o.
Airborne Instruments Lab., Div.-Cutler-Hammer, Inc., a, b, c, h, p.
Aircom Inc., b, k.
Aircom Inc. of New Jersey, b.
Alfred Electronics, b, k.
Allied International Co., a.
Amerac Inc., b, h.
American Bosch Arma Corp., e.
American Machine & Foundry Co., Government Products Group, b.
Andersen Labs., a, j, o, p.
Arenberg Ultrasonic Lab., Inc., o.
Avo Ltd., a, f, g.
B & K Instruments, Inc., f.
Babcock Radio Engrg., Inc., f, g, m.
Barker & Williamson Inc., f.
Beckman Instruments, Inc., Berkeley Div., e.
Bell & Gossett Co., e.
Bendix Aviation Corp., Red Bank Div., b, c, p.
Bendix Aviation Corp., York Div., b, c, e, g, h, p.
Blackstone Corp., e.
Bogue Electric Mfg., Co., p.
Boonton Radio Corp., a, g, h, m.
Branson Ultrasonic Corp., o.
Brown Engrg. Co., Inc., h.
Bulow Electric Co., b, e thru h, m.
Burr-Brown Research Corp., f, n.
California Technical Industries, Div.-Textron Inc., b.
Central Electronic Mfrs., Div.-Nuclear Corp. of America, c.
Centronix Inc., a thru h, j thru q.
Chalco Engrg. Corp., p.
Colorado Research Corp., p.
Communications Research Co., j.
Community Engrg. Corp., k.
Continental Electronics Mfg. Co., a, e.
Crosby Laboratories, Inc., j.
Cubic Corp., e, h, q.
Curtiss-Wright Corp., Princeton Div., o.
Curtiss-Wright Corp., Research Div., e, o.
Data-Control Systems, Inc., f.
Daven Co., The, a, f, h, k, o, p.
Demornay-Bonardi, b, c.
Donner Scientific Co., f, n, p, q.
Dresser Industries, Inc., f, p.
Du Kane Corp., f.
Dymec Inc., b.
Edgerton, Germeshausen & Grier, Inc., b.
Elcor, Inc., e, n.
Eldorado Electronics, e.
Electronic Communications, Inc., b, e.
Electronic Engrg. Co. of California, e, n, p, q.
Electronic Instrument Co., Inc. (EICO) f, h, j, l.
Electronic Tube Corp., n.
Electronics of Clearfield, Inc., e, p.
Electronics Div., Van Norman Industries Inc., a, b, e, g, h, i, k, m, p.
Elgenco, Inc., c.
Emerson Electric Mfg. Co., The, Electronics & Avionics Div., b.
Empire Products Sales Corp., b, e, p.
Engrg. Associates, a, b, c, e thru i, m thru p.
FXR, Inc. b, c, e, h, m, n, p, q.
Federal Mfg. & Engrg. Corp., b, e, g, h, o.
Foto-Video Labs., Inc., d, h, l, p.
Freed Transformer Co. Inc., o.
General Communication Co., a, b, e thru h, n.
Gulton Industries, Inc., o.
Gyrex Corp., The, f.
Haller, Raymond & Brown Inc. Div., Singer Mfg. Co., d, q.
Hallicrafters, e, h, i.
Hazeltine Electronics Div.-Hazeltine Corp.. b, e, h, i, m.
Hewlett-Packard Co., a, b, c, e thru i, m, n, p, q.
Hoover Electric Co., f, g, h.
Hughes Tool Co., Aircraft Div.
Walter J. Hyatt Co., The, b.
ITT Federal Div., International Telephone & Telegraph Corp., b, h, m.
ITT Labs., a, b, c, f thru j, m.
Industrial Test Equipment Co., f, p.
Intercontinental Dynamics Corp., c.
International Research Associates, p.
Interstate Electronics Corp., e.
Kaiser Aircraft & Electronics, Div.-Kaiser Industries Corp., b, j.
Kay Electric Co., a thru i, k, l, m, o, p, q.
*KEARFOTT CO., INC., b.
Kin Tel Div.-Cohu Electronics, Inc., l, o.
Kinevox Div.-Electromation Co., e.
Lampkin Labs., Inc., M. R. Div., h, m, p.
Land-Air Inc., a.
Lavoie Laboratories Inc., e, m.
Levinthal Electronic Products, Inc., b, e.
Litton Industries, Maryland Div., f, g, h, j, k, m.
Lumatron Electronics, Inc., e, n, p.
Manson Labs., Inc., b, e, h, m, p.
Marconi Instruments, a, c, e, f, g, m, n, p.
Mc Kenna Labs., o.
Measurements Div., McGraw-Edison Co., a, e thru h, m, n.
Meridian Metalcraft, Inc., b.
Minneapolis-Honeywell Regulator Co., Ordnance Div., b, e thru h.
Miratel, Inc., a, b, f, g, h, j, l, m.
Motorola Inc., Military Electronics Div., a, b, c, e thru q.
Munston Mfg. & Service, Inc., g, h.
Narda Ultrasonics Corp., The, e.
National Pneumatic Co., Inc., Holtzer-Cabot Divs., a thru q.
National Ultrasonic Corp., o.
Navigation Computer Corp., e, q.
Ernest Norrman Laboratories, e.
Northeast Scientific Corp., n.
Orbitran Co., Inc., e.
Pacific Radionics, e, o, p.
Paco Electronics Co., Inc., h.
Piasecki Aircraft Corp., m.
Polarad Electronics Corp., a thru e.
Polytechnic Research & Development Co., Inc., b, c.
Power Supplies Inc., e.
Precise Development Corp., a, d thru h, k, l, n, p.
Precision Apparatus Co., Inc., a, f, g, h, k, n.
RS Electronics Corp., e.
Radiation, Inc.
Radiation Instrument Development Lab., Inc., e.
Radiatronics, Inc., b.
Radionics, Inc., o, q.
Raytheon Mfg. Co., b.
Resdel Engrg. Corp., b, e, i, m.
Rese Engrg., Inc., e.
Rutherford Electronics Co., e.
Schaevitz Engrg., e.
Scientific-Atlanta, Inc., b, h.
H. H. Scott, Inc., c.
Singer Mfg. Co., The, Military Products Div., e.
Special Instruments Div., British Industries Corp., e.
Specialty Engrg. & Electronics Co., e, f, h.
Spectrum Instruments, Inc., q.
Sperry Microwave Electronics Co., Div.-Sperry Rand Corp., b.
Stoddart Aircraft Radio Co., Inc., e.
Systems Inc., a, b, c, e thru k, p, q.
Systron Corp., p.
Talley Corp., The, a, b, c, e.
Tapco Group, Thompson-Ramo-Wooldridge Inc., p.
Technical Apparatus Builders, p.
Technitrol Engrg. Co., e, p.
Telechrome Mfg. Corp., a thru e, g thru j, l, m, n, q.
Telectro Industries Corp., a, d thru n.
Telerad Mfg. Corp., b.
Teletronics Lab. Inc., e.
Tel-Instrument Electronics Corp., d, h, k, l, m, p.
Telonic Industries, Inc., e, h, k, m.
Tempo Instrument Inc., e.
Transonic, Inc., f, n.
Twenty-First Century Electronics, Inc., h.
U. S. Industries, Inc., c, d.
U. S. Science Corp., Div.-Topp Industries, Inc., h, m.
Walkirt Co., e, n.
Waltham Electronics Corp., a, b, c, f thru i, m, n.
Wang Labs., Inc., e, p, q.
Waveline, Inc., b.
Weinschel Engrg., b, e, h, i, m, n.
Wright Engrg. Co., b, c, h, i, m.

GENERATORS, GAS

*McCORMICK SELPH ASSOCIATES

GENERATORS, STARTER

*ELECTRICAL ENGRG. & MFG. CORP.

GEOPHYSICAL APPARATUS

Aerolab Development Co.
Anton Electronic Labs., Inc.
Associated Research, Inc.
Benson-Lehner Corp.
Cooper Development Corp., Sub.-Marquardt Aircraft Co.
J. W. Fecker, Inc.
Fisher Research Lab., Inc.
General Devices, Inc.
Georator Corp.
Geotronic Labs. Inc.
Gordon Enterprises
Instrumentation Div.-Ampex Corp.
Mast Development Co., Inc.
Midwestern Instruments, Inc.
Minneapolis-Honeywell Regulator Co., Boston Div.
Moran Instrument Corp.
Motorola Inc., Military Electronics Div.
Seiscor Mfg. Co.
Southwestern Industrial Electronics Co.
Spectrum Instruments, Inc.
Twenty-First Century Electronics, Inc.
United Electrodynamics, Inc.
U. S. Industries, Inc.
Varian Associates
Virginia Electronics Co., Inc.

GLASS JEWELS

See JEWELS, GLASS

GLASS, LOW MELTING POINT

*ALLIED CHEMICAL CORP., GENERAL CHEMICAL DIV.

GOVERNORS, MISSILE CONTROL

*BENDIX AVIATION CORP., HAMILTON DIV.
Graflex Inc.
Guided Missile Div.-De Havilland Aircraft of Canada, Ltd.
Hoof Products Co.
Hoover Electric Co.
National Pneumatic Co., Inc., Holtzer-Cabot Divs.

GRAPHIC RECORDING INSTRUMENTS

See INSTRUMENTS, GRAPHIC RECORDING

GRAPHITE ANODES

See ANODES, GRAPHITE

GRID FRAMES

Astronautics Engrg. Co.
Monogram Precision Industries
Stover Co., Inc., The

GRIDS

Astronautics Engrg. Co.
Jodee Plastics Co.
Monogram Precision Industries
Stover Co., Inc., The

GRILLES, METAL

A&P Metal Products Mfg. Corp.
Abalon Precision Mfg. Corp.
Adept Industries Inc.
Alpitec, Inc.
American Aluminum Co.
Anchor Metal Spinning Co., The
B. H. Aircraft Co., Inc.
Bendix Aviation Corp., York Div.
Cornell Deep Drawing Co., Div.-Lanes Industries Corp.
Croname Inc.
Etched Products Corp.
Flock Process Co., Inc.
Lofstrand Co., The
Mercury Tool & Mfg. Corp.
Mid-West Metal Products, Inc.
Monogram Precision Industries
Charles Mundt & Sons
Pioneer Industries Div., Almar-York Co. Inc.
Edw. Renneburg & Sons Co.
Rimak, Inc.
Rolock Inc.
Stainless Inc.
Teiner Engrg. Corp.

GRILLES, MOLDED PLASTIC

Adept Industries Inc.
American Insulator Corp.
Chemold Co.
Cornell Deep Drawing Co., Div.-Lanes Industries Corp.
Crystal-X Corp.
Erie Resistor Corp.
Hardman Tool & Engrg., Co.
Haveg Industries, Inc.
Hughes Tool Co., Aircraft Div.
Joclin Mfg. Co.
Lamtex Industries, Inc.
Lancaster Glass Corp.
Minnesota Mining & Mfg. Co.
Perry Plastics, Inc.
Plastic Age Sales, Inc.
Milton Ross Metals Co., The
Universal Moulded Products Corp.

GRILLS, SPEAKER

Croname Inc.
Etched Products Corp.
Flock Process Co., Inc.
Charles Mundt & Sons
Pacific Cut Washer Co.
Peerless Products Industries
Perry Plastics, Inc.
Milton Ross Metals Co., The
Rubber Teck Inc.
Waterbury Companies, Inc.
Western Felt Works & Acadia Synthetic Products Div.

GRINDERS & BUFFERS

See BUFFERS & GRINDERS

GROMMETS

Allied Plastics Supply Corp.
Amatom Electronic Hardware Co. Inc.
American Brass Co., The
Auburn Mfg. Co., The
Auburn Spark Plug Co., Inc.
Calinoy-Div.-Illinois Tool Works
Century Fasteners Corp.
Colonial Rubber Co.
Continental Rubber Works
Eljay Corp.
Federal Screw Products Inc.
General Gasket Inc.
Goshen Rubber Co., Inc.
Hallett Mfg., Co.
Hoosier Tarpaulin & Canvas Goods Co., Inc.
Joclin Mfg. Co.
Lord Mfg. Co.

Minnesota Rubber Co.
Molding Corp. of America
Orchard Industries, Inc., Actionflex Div.
Penn Fibre & Specialty Co., Inc.
Pneumafil Corp.
Roberts Toledo Rubber Co., The
Milton Ross Metals Co., The
Rubbercraft Corp. of California
Silicone Insulation, Inc.
Stanley-Judd Div.-The Stanley Works
Thermech Engrg. Corp.
Turbo Products, Inc.
United Shoe Machinery Corp., Ordnance Dept.
Waldom Electronics Inc.
Wasley Products, Inc.
Wilcox-Crittenden Div., North & Judd Mfg. Co.

GROMMETS, FIBRE

All Specs Corp.
Allied Plastics Supply Corp.
Amatom Electronic Hardware Co. Inc.
American Missile Products Co., Inc.
Auburn Mfg. Co., The
Comco Plastics Inc.
Continental Diamond Fibre Corp.
Eljay Corp.
Emerson Plastics Corp.
Federal Screw Products Inc.
General Gasket Inc.
Haveg Industries, Inc.
Heyman Mfg. Co.
Hoosier Tarpaulin & Canvas Goods Co., Inc.
Joclin Mfg. Co.
National Tel-Tronics Corp.
National Vulcanized Fibre Co.
***PACKARD-BELL ELECTRONICS CORP.**
Penn Fibre & Specialty Co., Inc.
Rogers Corp.
Waldom Electronics Inc.
Wilmington Fibre Specialty Co.

GROUND BASED MISSILE LAUNCHERS
See LAUNCHERS, GROUND BASED MISSILE

GROUND CHECK-OUT EQUIPMENT, MISSILES
See MISSILES, GROUND CHECK-OUT EQUIPMENT

GROUND HANDLING EQUIPMENT, MISSILES

ACF Industries Inc.
Accessory Controls & Equipment Corp.
Accessory Products Co., Div.-Textron Inc.
Acco Equipment Div., American Chain & Cable Co., Inc.
Aero Leather Products Co.
Aerojet-General Corp.
Aeroscience, Inc.
Air Logistics Corp.
Aircraft Armaments, Inc.
***AIRESEARCH MFG. CO., DIV.-THE GARRETT CORP.**
Alad Aluminum Ladder Corp.
Alco Products, Inc.
***ALUMINUM SAFETY PRODUCTS, INC.**
Amelco, Inc.
American Air Filter Co., Defense Products Div.
American Car & Foundry, Div.-ACF Industries, Inc.
American Machine & Foundry Co., Government Products Group
American Machine & Foundry Co., Greenwich
American Missile Products Co., Inc.
American Steel Foundries, Hammond Div.
Anchor Metal Spinning Co., The
Applied Design Co.
Arnolt Corp.
Associated Engineers, Inc.
Astronautics Engrg. Co.
Atlas Precision Products, Co.
Austin-Western, Constr. Equip. Div., Baldwin-Lima-Hamilton Corp.
***AVCO MFG. CORP., CROSLEY DIV.**
Baker Industrial Trucks, Div.-Otis Elevator Co.
Basco Metal Products, Inc.
Bassick Co., The, Div.-Stewart-Warner
Beaver Precision Products Inc.
Belock Instrument Corp.
***BENDIX PRODUCTS DIV., BENDIX AVIATION CORP.**
Bendix Products Div.-Missiles, Bendix Aviation Corp.
Bendix Radio Div., Bendix Aviation Corp.
Benson Mfg., Co., The
Berger Brothers Co., The
Bil-Jax, Inc.
E. W. Bliss Co.
Bowser, Inc., Defense Dept.
Breeze Corporations, Inc.
Brooks & Perkins, Inc.
Brown Engrg. Co., Inc.
Bruce Engrg. Co.
Butler Mfg. Co.
Byron-Jackson Pumps Inc.
Capital City Mfg. Co.
Chalco Engrg. Corp.
C. B. Christiansen Co.
Chrysler Corp., Defense Operations Div.
Clark Equipment Co.
Cleveland Pneumatic Industries, Inc.
Coleman Engrg. Co., Inc.
Colonial Aircraft Corp.
Columbia Research & Development Corp.
Conco Engrg. Works
Consolidated Diesel Electric Corp.
Consolidated Diesel Electric Corp., Test Equip. Div.
Consolidated Diesel Electric Corp., Western Div.
Continental Technical Service, Inc.
Control Engrg. Co., Div. Jervis B. Webb Co.
Cooper Development Corp., Sub.-Marquardt Aircraft Co.
Cornelius Co., The, Aero Div.
Craig Systems, Inc.
Crane Carrier Corp.
Cromer Mfg. & Engrg., Inc.
Curtiss-Wright Corp., Research Div.
Curtiss-Wright Corp., Santa Barbara Div.
Curtiss-Wright Corp., South Bend Div.
Dalmotor Div., Yuba Consolidated Industries, Inc.
Data-Control Systems, Inc.
Divco-Wayne Electronics, Div.-Divco-Wayne Corp.
Diversey Engrg. Co.
Double E Products Co.
Dresser Industries, Inc.
Dresser-Ideco Co., Div.-Dresser Industries, Inc.
Edgerton, Germeshausen & Grier, Inc.
Eidal Mfg. Co., Inc.
Electro-Mechanical Products Co.
Emerson Electric Mfg. Co., The, Electronics & Avionics Div.
Emerson Radio & Phonograph Corp.
FWD Corp.
Fairchild Astrionics Div., Fairchild Engine & Airplane Corp.
Farrel Birmingham Co., Inc.
Federal Mfg. & Engrg. Corp.
Firestone Tire & Rubber Co., The, Guided Missile Div.
Food Machinery & Chemical Corp.
Fruehauf Trailer Co., Military Equipment Div.
Fulton-Irgon Corp., The
Gabriel Co., The-Talco Engrg. Co. Div.
G. W. Galloway Co.
General Electric Co., Missile & Space Vehicle Dept.
Globe Hoist Co.
Goodyear Aircraft Corp.
Gremco, Inc.
Griscom-Russell Co., The
Hallicrafters
***HARCO CONTAINERS DIV.-HARBOR BOAT BUILDING CO.**
Paul Hardeman, Inc.
Hardman Tool & Engrg. Co.
Haskel Engrg. & Supply Co.
Highland Rim Machine Works Inc.
Ludwig Honold Mfg. Co.
Hoover Electric Co.
Horkey-Moore Associates
Houston Fearless Corp.
Hufford Corp., The
Hughes Aircraft Co.
Hughes Tool Co., Aircraft Div.
Hussmann Aircraft Div.
Walter J. Hyatt Co., The
Hydra-Power Corp.
***HYDRO-AIRE CO., DIV.-CRANE CO.**
ITT Federal Div., International Telephone & Telegraph Corp.
Industrial Tools Mfg. Corp., Sub.-Pendleton Tool Industries, Inc.
Ingersoll Kalamazoo Div., Borg-Warner Corp.
Integral Corp.
Intercontinental Mfg. Co., Inc.
Interstate Engrg. Corp.
Jack & Heintz, Inc.
Jeta, Inc.
Kahn & Co., Inc.
Kaiser Aircraft & Electronics, Div.-Kaiser Industries Corp.
Kaiser Steel Corp., Fabricating Div.
Kanarr Corp.
Kemp Aero Products
Land-Air Inc.
Lear, Inc., Grand Rapids Div.
R. G. Letourneau, Inc.
Liggett Supply & Equipment Co.
Link-Belt Co.
Longren Aircraft Co., Inc.
Machine Products Div., New Haven Trap Rock Co.
Mack Trucks, Inc., Government Div.
Marotta Valve Corp.
Marquardt Aircraft Co.
Mast Development Co., Inc.
Mc Dowell-Wellman Companies, The
Mechanics Universal Joint Div., Borg-Warner Corp.
Metronix, Inc., Sub.-Assembly Products, Inc.
Minneapolis-Honeywell Regulator Co., Aeronautical Div.
Minneapolis-Honeywell Regulator Co., Ordnance Div.
***MIRAX CHEMICAL PRODUCTS CORP., ELECTRO-MECHANICAL PRODUCTS DIV.**
Monogram Precision Industries
Monrovia Aviation Corp.
George L. Nonkervis Co.
Nebel Machine Tool Corp.
***NEWAY EQUIPMENT CO.**
Newbrook Machine Corp.
Northrop Corp., The, Nortronics Div.
Nuclear Products-Erco Div.-ACF Industries, Inc.
Opelika Welding, Machine & Supply Inc.
Optimized Devices, Inc.
Otis Elevator Co., Electronic Div.
Philco Corp., Government & Industrial Div.
Philips & Davies, Inc.
Piasecki Aircraft Corp.
Portland Copper & Tank Works Inc.
Precision Shapes, Inc.
Precision Sheet Metal, Inc.
Pre-Flite Industries Corp.-Sub. – AVCO Corp.
Project Fabrication Corp.
Pry Welding & Mfg., Inc.
Ramo-Wooldridge Div., Thompson-Ramo-Wooldridge of Calif.
Ravenna Metal Products, Div.-Standard Screw Co.
Red Lion Cabinet Co., Redco Tool Div.
Regent Jack Mfg, Co., Inc.
Republic Aviation Corp.
Research Controls
***RHEEM MFG. CO., DEFENSE & TECHNICAL PRODUCTS DIV.**
Royal Industries, Inc.
Sancor Corp.
Sandberg-Serrell Corp.
Sargent Engrg. Corp.
Scaife Co.-Div.-Wilson Bros.
Schaffer Air Industries, Inc.
Seeburg Corp., The
Servo Corp. of America
Skyline Products, Inc.
Space Corp.
Special Projects Lab., Food Machinery & Chemical Corp.
Stainless Inc.
Stainless Steel Products, Inc.
Stanley Aviation Corp.
Stearns-Roger Mfg. Co.
A. U. Stone & Co., Inc.
Strong Scott Mfg. Co., The
Sun Electric Corp., Aeronautical Div.
Systron Corp.
Talley Corp., The
Tapco Group, Thompson-Ramo-Wooldridge Inc.
Telectro Industries Corp.
Texas Metal & Mfg. Co., Inc.
Theta Instrument Corp.
Thiokol Chemical Corp.
Thiokol Chemical Corp., Hunter-Bristol Div.
Trailmobile Inc.
Turbo Products, Inc.
Twin Coach Co., Aircraft-Missiles
United Aircraft Products, Inc.
United Mfg. Co., The
United Mfg. Co., Div., The W. L. Maxson Corp.
U. S. Science Corp., Div.-Topp Industries, Inc.
United States Chemical Milling Corp.
Universal Metal Products Inc.
Van Zelm Associates, Inc.
Vard Inc.
Vickers Inc., Div.-Sperry Rand
Vitro Labs.
Washington Technological Associates Inc.
Wayne Pump Co., The, Div.-Symington Wayne Corp.
Weber Aircraft Corp.
Welded Construction Inc.
Wenzlau Engrg. Co.
***R. D. WERNER CO., INC.**
Western Design, Div.-U. S. Industries, Inc.; Santa Barbara Div.
Western Gear Corp.
Westinghouse Air Brake Co., Industrial Products Div.
Westinghouse Electric Corp.
Wheland Co., The
Wickfield, Inc.
Winder Aircraft Corp. of Florida
Wintronics

GROUND HOISTS
See HOISTS, GROUND

GROUND LANDING SYSTEMS

Air Logistics Corp.
Associated Engineers, Inc.
Astronautics Engrg. Co.
Atlas Precision Products, Co.
***AVCO MFG. CORP., CROSLEY DIV.**
Bell Aircraft Corp., Niagara Frontier Div.
Belock Instrument Corp.
***BENDIX PRODUCTS DIV., BENDIX AVIATION CORP.**
Bendix Products Div.,-Missiles, Bendix Aviation Corp.
Bogue Electric Mfg., Co.
Brown Engrg. Co., Inc.
Cleveland Pneumatic Industries, Inc.
Collins Radio Co.
Craig Systems, Inc.
Dalmotor Div., Yuba Consolidated Industries, Inc.
Data-Control Systems, Inc.
Gilfillan Bros. Inc.
ITT Federal Div., International Telephone & Telegraph Corp.
***KEARFOTT CO., INC.**
Land-Air Inc.
Litton Industries, Maryland Div.
Longren Aircraft Co., Inc.
Minneapolis-Honeywell Regulator Co.-Aeronautical Div.
Motorola Inc., Military Electronics Div.
National Pneumatic Co., Inc., Holtzer-Cabot Divs.
Otis Elevator Co., Electronic Div.
Philco Corp., Government & Industrial Div.
Raytheon Mfg. Co., Government Equipment Div.
Telectro Industries Corp.
U. S. Industries, Inc.
U. S. Science Corp., Div.-Topp Industries, Inc.
Washington Technological Associates Inc.
Westinghouse Electric Corp.
Winder Aircraft Corp. of Florida

GROUND NAVIGATION EQUIPMENT
See **NAVIGATION EQUIPMENT, GROUND**

GROUND POWER SOURCES
See **POWER SOURCES, GROUND**

GROUND REFRIGERATION EQUIPMENT
See **REFRIGERATION EQUIPMENT, GROUND**

GROUND STRIPS
See **STRIPS, GROUND**

GUARDS, SWITCH
See **SWITCH GUARDS**

GUIDANCE EQUIPMENT, MISSILES

***AC ELECTRONICS DIV., GENERAL MOTORS CORP.**
ACF Industries Inc.
Aerojet-General Corp.
***AIRESEARCH MFG. CO., DIV.-THE GARRETT CORP.**
Amelco, Inc.
American Bosch Arma Corp.
American Machine & Foundry Co., Greenwich
Astronautics Engrg. Co.
Atlas Precision Products Co.
Beaver Precision Products Inc.
Bell Aircraft Corp., Niagara Frontier Div.
Belock Instrument Corp.
Bendix Aviation Corp., Eclipse-Pioneer Div.
Bendix Aviation Corp., Friez Instrument Div.
Bendix-Pacific Div., Bendix Aviation Corp.
Brown Engrg. Co., Inc.
Burroughs Corp.
Cameraflex Corp.
Canoga Div., Underwood Corp.
Chalco Engrg. Corp.
Chicago Aerial Industries, Inc.
Chrysler Corp., Defense Operations Div.
Collins Radio Co.
Dalmotor Div., Yuba Consolidated Industries, Inc.
Data-Control Systems, Inc.
Davidson Mfg., Co., Inc.
Dayton Aviation Radio & Equipment Corp.
Divco-Wayne Electronics, Div.-Divco-Wayne Corp.
Diversey Engrg. Co.
Double E Products Co.
Eagle-Picher Co., The
Eastern Industries Inc.
Thomas A. Edison Ind. Instrument Div.-McGraw-Edison Co.
Electro Development Co.
Electro-Mechanical Products Co.
Electronic Communications, Inc.
Emerson Electric Mfg. Co., The, Electronics & Avionics Div.
Emerson Radio & Phonograph Corp.
Fairchild Astrionics Div., Fairchild Engine & Airplane Corp.
Federal Mfg. & Engrg. Corp.
Ford Instrument Co., Div.-Sperry Rand Corp.
General Devices, Inc.
General Precision Lab. Inc.
Gilfillan Bros. Inc.
Graflex Inc.
Guided Missile Div.-DeHavilland Aircraft of Canada, Ltd.
Hallamore Electronics Co.
Hallicrafters
Hayward Scientific Glass Corp.
Hazeltine Electronics Div.-Hazeltine Corp.
Hoffman Labs. Div., Hoffman Electronics Corp.
C. G. Hokanson Co., Inc.
Hoover Electric Co.
Hughes Aircraft Co.
Walter J. Hyatt Co., The
ITT Federal Div., International Telephone & Telegraph Corp.
ITT Labs.
Jansky & Bailey, Inc.
***KEARFOTT CO., INC.**
Kelsey-Hayes Co.
Kemp Aero Products
Kinevox Div.-Electromation Co.
Land-Air Inc.
Lear, Inc.
Lear, Inc., Grand Rapids Div.
Librascope Inc.
Litton Industries, Maryland Div.
Marotta Valve Corp.
W. L. Maxson Corp., The
Minneapolis-Honeywell Regulator Co.-Aeronautical Div.
Morse Instrument Co., The
Motorola Inc., Military Electronics Div.
National Pneumatic Co., Inc., Holtzer-Cabot Divs.
Newton Co., The
Northrop Corp.
Northrop Corp., The, Nortronics Div.
Perkin-Elmer Corp.
Philco Corp., Government & Industrial Div.
Pioneer Tool & Engrg. Co.
Precision Shapes, Inc.
Radiation, Inc.
Ramo-Wooldridge Div., Thompson Ramo Wooldridge of Calif.
Raytheon Mfg. Co., Government Equipment Div.
Reeves Instrument Corp.
Ryan Aeronautical Co.
Seeburg Corp., The
Seiscor Mfg. Co.
Servo Corp. of America
Servomechanisms, Inc.
Skiatron Electronics & Television Corp.
Sperry Farragut Co., Div.-Sperry Rand Corp.
Stainless Inc.
Summers Gyroscope Co.
Superior Carbon Products, Inc.
Telectro Industries Corp.
Telerad Mfg. Corp.
Twenty-First Century Electronics, Inc.
U. S. Industries, Inc.
United States Time Corp.
Varian Associates
Vinco Corp.
Washington Technological Associates Inc.
Waste King Corp., Technical Products Div.
Wayne Pump Co., The, Div.-Symington Wayne Corp.
Webcor, Inc., Government Div.
Westinghouse Electric Corp.
Whittaker Gyro. Div.-Telecomputing Corp.
Zenith Optical Laboratory

GUIDANCE SYSTEMS
a. Infrared
b. Inertial
c. Pilotless Aircraft
d. Radar
e. Radio
f. Stellar

***AC ELECTRONICS DIV., GENERAL MOTORS CORP., b, c.**
ACF Industries Inc., **a thru e.**
Aerojet-General Corp., **a.**
Aeronca Mfg. Corp., **d, e.**
Amelco, Inc., **c, e.**
American Bosch Arma Corp., **b.**
American Machine & Foundry Co., Greenwich, **a.**
American Optical Co., Instrument Div., **a.**
Arma Div., American Bosch Arma Corp., **b.**
Atlantic Instrument Corp., Sub.-American Electronics, Inc., **a.**
Atlas Precision Products, Co., **c, d.**
Babcock Radio Engrg., Inc., **c.**
***BAUSCH & LOMB OPTICAL CO., a.**
Bell Aircraft Corp., Niagara Frontier Div., **a thru d.**
Belock Instrument Corp., **a, b, d.**
Bendix Aviation Corp., Eclipse-Pioneer Div., **b, c.**
Bendix Aviation Corp., Friez Instrument Div.
Bendix-Pacific Div., Bendix Aviation Corp., **d.**
Bendix Radio Div., Bendix Aviation Corp., **c, d.**
Blaw-Knox Equipment, Div.-Blaw-Knox Co., **d, f.**
Brown Engrg. Co., Inc., **b.**
Bulow Electric Co., **a.**
Burroughs Corp., **a, d.**
Canoga Div., Underwood Corp., **d.**
Cedar Engrg. Div.-Control Data Corp., **a, b.**
Centronix Inc., **d, e.**
Chicago Aerial Industries, Inc., **a, c, f.**
Collins Radio Co., **c, e.**
Communications Research Co., **f.**
Cooper Development Corp., Sub.-Marquardt Aircraft Co., **a.**
DBM Research Corp., **d.**
Dalmotor Div., Yuba Consolidated Industries, Inc., **b, c.**
Data-Control Systems, Inc., **e.**
Davidson Mfg., Co., Inc., **a.**
Daystrom Pacific Div.-Daystrom, Inc., **a, b.**
Dayton Aviation Radio & Equipment Corp., **e.**
Divco-Wayne Electronics, Div.-Divco-Wayne Corp., **d, e.**
Donner Scientific Co., **b.**
Eastman Kodak Co., **a.**
Thomas A. Edison Ind. Instrument Div.-McGraw-Edison Co.
Electro Development Co., **c, d.**
Electronic Communications, Inc., **a, c thru f.**
Electronic Research Associates, Inc., **e.**
Emerson Electric Mfg. Co., The, Electronics & Avionics Div., **a, b, d, e.**
Emerson Radio & Phonograph Corp., **c, d, e.**
Fairchild Astrionics Div., Fairchild Engine & Airplane Corp., **b thru e.**
Federal Mfg. & Engrg. Corp., **c, d.**
Feedback Controls, Inc., **c.**
Ford Instrument Co., Div.-Sperry Rand Corp., **b thru e.**
General Devices, Inc., **e.**
General Precision Lab. Inc., **a, b, d, f.**
G. M. Giannini & Co., Inc., **b.**
Gilfillan Bros. Inc.
Goodyear Aircraft Corp., **c, d, f.**
Guided Missile Div.-De Havilland Aircraft of Canada, Ltd., **a.**
Gulton Industries, Inc., **b.**
Hallamore Electronics Co., **c.**
Haller, Raymond & Brown Inc. Div., Singer Mfg. Co., **a.**
Hallicrafters, **d, e.**
Hamilton Standard, Div.-United Aircraft Corp., **a.**
Hazeltine Electronics Div.-Hazeltine Corp., **a thru e.**
Hoover Electric Co., **c.**
Hughes Aircraft Co., **a, d.**
Walter J. Hyatt Co., The, **a, b, d.**
Hydra-Power Corp., **b, c, f.**
ITT Federal Div., International Telephone & Telegraph Corp., **a, d, e.**
ITT Labs., **a thru f.**
ITT Labs.-Ft. Wayne, **a.**
International Business Machines Corp.-Military Products Div., **b, f.**
Jansky & Bailey, Inc., **e.**
***KEARFOTT CO., INC., a, b, c, f.**
Kelsey-Hayes Co.
Land-Air Inc., **b, c.**
Lear, Inc., **a, b, c, e.**
Lear, Inc., Grand Rapids Div., **b, c, e.**
Levinthal Electronic Products, Inc., **d.**
Librascope Inc., **a.**
Litton Industries, Inc., **b.**
Litton Industries, Maryland Div., **d, e, f.**
Lockheed Aircraft Corp., Missiles & Space Div., **a, d, e.**
W. L. Maxson Corp., The, **b, c, d.**
Mergenthaler Linotype Co., **a.**
Minneapolis-Honeywell Regulator Co.-Aeronautical Div., **a, b, c.**
Missouri Research Labs., Inc., **c, d.**
Monogram Precision Industries, **a, d.**
Morse Instrument Co., The, **d.**
Motorola Inc., Military Electronics Div., **a thru e.**
Narmco Mfg. Co.
National Pneumatic Co., Inc., Holtzer-Cabot Divs., **e.**
Northrop Corp., **a thru f.**
Northrop Corp., The, Nortronics Div., **a, b, c, f.**
***PACKARD-BELL ELECTRONICS CORP., b, d.**
Patterson, Moos Div. – Universal Winding Co., Inc., **a.**
Perkin-Elmer Corp., **a, f.**
Philco Corp., Government & Industrial Div., **a thru f.**
Piasecki Aircraft Corp., **c, d, e.**
Pioneer Tool & Engrg. Co., **b.**
Power-Tronic Systems Inc., **b, c, f.**
Radiation, Inc.
Ramo-Wooldridge Div., Thompson Ramo Wooldridge of Calif.
Raytheon Mfg. Co., **d.**
Raytheon Mfg. Co., Government Equipment Div., **a, c, d, e.**
Reeves Instrument Corp., **b, d.**
Republic Aviation Corp., **a thru e.**
Royal Industries, Inc., **a.**
Ryan Aeronautical Co., **b, c, d.**
Santa Barbara Research Center, **a, f.**
Seiscor Mfg. Co., **e.**
Servo Corp. of America
Shannon Luminous Materials Co., **b.**
Singer Mfg. Co., The, Military Products Div., **a.**
Skiatron Electronics & Television Corp., **a, d, e, f.**
Smith-Morris Corp.
Specialties, Inc., **c.**
Sperry Farragut Co., Div.-Sperry Rand Corp., **b, d.**
Sperry Gyroscope Co., Marine Div., Div.-Sperry Rand Corp., **b.**
Sperry Piedmont Co. – Div.-Sperry Rand Corp., **b, d.**
Stavid Engrg., Inc., **d.**
Stromberg-Carlson Div.-General Dynamics Corp., **e.**
Summers Gyroscope Co., **b, c.**
Systems Inc., **a, c, d.**
Tele-Dynamics Inc., **c, e.**
Telerad Mfg. Corp., **d.**
Tinsley Labs., Inc., **a.**
Topper Mfg. Co., Inc., **a.**
Twenty-First Century Electronics, Inc., **a.**
U. S. Industries, Inc., **a, d.**
United States Time Corp., **a, b.**
Varian Associates, **d.**
Waldorf Electronics. Div.-F.C. Huyck & Sons, **d, e.**
Waltham Engrg. Corp., **b.**
Washington Aluminum Co., Inc., **d.**
Waste King Corp., Technical Products Div., **b, c.**
Webcor, Inc., Government Div., **a thru f.**
Westinghouse Electric Corp., **a thru e.**
Whittaker Gyro. Div.-Telecomputing Corp., **c.**
Winzen Research Inc., **e.**

GUIDED MISSILE TELEMETERING

***AC ELECTRONICS DIV., GENERAL MOTORS CORP.**
ACF Industries Inc.
Adler Electronics, Inc.
Aerojet-General Corp.
Aeronca Mfg. Corp.
Aircom Inc.
American Missile Products Co., Inc.
Applied Science Corp. of Princeton
Atlas Precision Products, Co.
Barker Sales Co.
Beaver Precision Products Inc.
Bell Aircraft Corp., Niagara Frontier Div.
Belock Instrument Corp.
Bendix Aviation Corp., Eclipse-Pioneer Div.
Bendix Aviation Corp., York Div.
Bendix-Pacific Div., Bendix Aviation Corp.
Brush Instruments, Div.-Clevite Corp.
Bulow Electric Co.
Centronix Inc.
Chrysler Corp., Defense Operations Div.
Clary Dynamics
Cleveland Metal Specialties Co., Electronics Div.
Communications Research Co.
Cooper Development Corp., Sub.-Marquardt Aircraft Co.
Curtiss-Wright Electronics Div., IMI Branch
Data-Control Systems, Inc.
Edgerton, Germeshausen & Grier, Inc.
Electro-Mechanical Products Co.
Electro-Mechanical Research, Inc.
Electro Tec Corp.
Electronic Communications, Inc.
Emerson Electric Mfg. Co., The, Electronics & Avionics Div.
Emerson Radio & Phonograph Corp.

Fairchild Astrionics Div., Fairchild Engine & Airplane Corp.
Federal Mfg. & Engrg. Corp.
Firestone Tire & Rubber Co., The, Guided Missile Div.
Ford Instrument Co., Div.-Sperry Rand Corp.
General Devices, Inc.
Gilfillan Bros. Inc.
Graflex Inc.
Hallamore Electronics Co.
Hazeltine Electronics Div.-Hazeltine Corp.
Hogan Laboratories, Inc.
ITT Federal Div., International Telephone & Telegraph Corp.
Instrumentation Div.-Ampex Corp.
Kauke & Co.
Land-Air Inc.
Lear, Inc.
L E L, Inc.
Litton Industries, Inc.
Litton Industries, Maryland Div.
Lockheed Aircraft Corp., Missiles & Space Div.
Magnavox Co., The
Minneapolis-Honeywell Regulator Co.-Davies Labs. Div.
Minnesota Mining & Mfg. Co.
Motorola Inc., Military Electronics Div.
Normco Mfg. Co.
Networks Electronic Corp.
Otis Elevator Co., Electronic Div.
***PACKARD-BELL ELECTRONICS CORP.**
Ralph M. Parsons Co., The, Electronics Div.
Philco Corp., Government & Industrial Div.
Polarad Electronics Corp.
Radiaphone Co. Inc.
Radiation, Inc.
Ramo-Wooldridge Div., Thompson Ramo Wooldridge of Calif.
Raytheon Mfg. Co., Government Equipment Div.
Republic Aviation Corp.
***RHEEM MFG. CO., DEFENSE & TECHNICAL PRODUCTS DIV.**
Royal Industries, Inc.
Seeburg Corp., The
Servo Corp. of America
Servomechanisms, Inc.
Singer Mfg. Co., The, Military Products Div.
Skiatron Electronics & Television Corp.
Summers Gyroscope Co.
Sun Electric Corp., Aeronautical Div.
Talley Corp., The
Telechrome Mfg. Corp.
Telectro Industries Corp.
Tele-Dynamics Inc.
Telerad Mfg. Corp.
United Electrodynamics, Inc.
U. S. Science Corp., Div.-Topp Industries, Inc.
United States Time Corp.
Washington Technological Associates Inc.
Webcor, Inc., Government Div.
Westinghouse Electric Corp.
Whittaker Gyro. Div.-Telecomputing Corp.
Winzen Research Inc.

GUIDES, VALVE
See VALVE GUIDES

GUN MOUNTS, TELEVISION

American Machine & Foundry Co., Government Products Group
American Machine & Foundry Co., Greenwich
Anchor Metal Spinning Co., The
Arma Div., American Bosch Arma Corp.
Bendix Aviation Corp., Friez Instrument Div.
Blonder-Tongue Labs., Inc.
Capital City Mfg. Co.
Kaiser Aircraft & Electronics, Div.-Kaiser Industries Corp.
Mercury Tool & Mfg. Corp.
Philco Corp., Government & Industrial Div.
Skiatron Electronics & Television Corp.
Stainless Inc.
Thomas Electronics, Inc.
U. S. Industries, Inc.

GUNS, SOLDERING
See SOLDERING GUNS

GYROS
a. **Attitude**
b. **Directional**
c. **Free**
d. **Integrating**
e. **Missiles**
f. **Rate**

***AC ELECTRONICS DIV., GENERAL MOTORS CORP., b, d, e, f.**
Aeroflex Corp., The, Aeroflex Labs. Div., a, d, e, f.
Air Logistics Corp., f.
R. C. Allen Aircraft Instr. Div., R. C. Allen Bus. Machines, Inc., c, e, f.
American Aeroparts, a, b.
American Bosch Arma Corp.
Arma Div., American Bosch Arma Corp., c, d.
Bell Aircraft Corp., Niagara Frontier Div., b, e.
Belock Instrument Corp., a thru f.
Bendix Aviation Corp., Eclipse-Pioneer Div., a thru f.
Bendix Aviation Corp., Pioneer-Central Div., a, f.
Cedar Engrg. Div.-Control Data Corp., a thru f.
Clary Dynamics, a, b, c, e.
Collins Engrg. Corp., a.
Control Data Corp., a, b, e, f.
Daystrom Pacific Div.-Daystrom, Inc., a thru f.
Donner Scientific Co., a thru f.
Fairchild Controls Corp., Components Div., f.
Ford Instrument Co., Div.-Sperry Rand Corp., a thru f.
General Electric Co., Apparatus Sales Div., a, b, d, e, f.
G. M. Giannini & Co., Inc., a thru f.
Globe Industries, Inc., a, b, c, f.
Graflex Inc., e.
Greenleaf Mfg. Div., The, Mandrel Ind. Inc., c thru f.
Gyrex Corp., The
Hoffman Labs. Div., Hoffman Electronics Corp., a thru f.
Humphrey, Inc., a, b, c, e, f.
Iron Fireman Mfg. Co., Electronics Div., b, c, e.
***KEARFOTT CO., INC., a thru f.**
Ketay Dept., Norden Div., United Aircraft Corp., a thru f.
Lear, Inc., a, b.
Lear, Inc., Grand Rapids Div., a thru f.
W. L. Maxson Corp., The, c thru f.
Minneapolis-Honeywell Regulator Co., Aeronautical Div., a thru f.
Minneapolis-Honeywell Regulator Co., Boston Div., c, e, f.
Pacific Scientific Co., f.
Piasecki Aircraft Corp., a, f.
Pioneer Tool & Engrg. Co., a thru f.
Power-Tronic Systems Inc., d, f.
Reeves Instrument Corp., d, e.
Sanders Associates, Inc., a, e, f.
Solartron Inc., f.
Sperry Farragut Co., Div.-Sperry Rand Corp., b thru f.
Sperry Gyroscope Co., Marine Div., Div.-Sperry Rand Corp., b, f.
Sperry Piedmont Co. – Div.-Sperry Rand Corp., b, f.
Sterling Precision Corp., Instrument Div., d, f.
Summers Gyroscope Co., a thru f.
United States Time Corp., a thru f.
Waltham Precision Instrument Co., a, c, f.
Waste King Corp., Technical Products Div., a thru e.
Westinghouse Electric Corp., a thru f.
Whittaker Gyro. Div.-Telecomputing Corp., a, b, c, e, f.

GYROSCOPES

Aeroflex Corp., The, Aeroflex Labs. Div.
R. C. Allen Aircraft Instr. Div., R. C. Allen Bus. Machines, Inc.
American Bosch Arma Corp.
Atlantic Instrument Corp., Sub.-American Electronics, Inc.
Bell Aircraft Corp., Niagara Frontier Div.
Belock Instrument Corp.
Bendix Aviation Corp., Eclipse-Pioneer Div.
Cedar Engrg. Div.-Control Data Corp.
Clary Dynamics
Control Data Corp.
Daystrom Pacific Div.-Daystrom, Inc.
Donner Scientific Co.
Ford Instrument Co., Div.-Sperry Rand Corp.
General Electric Co., Apparatus Sales Div.
G. M. Giannini & Co., Inc.
Globe Industries, Inc.
Graflex Inc.
Hoffman Labs. Div., Hoffman Electronics Corp.
Humphrey, Inc.
Iron Fireman Mfg. Co., Electronics Div.
***KEARFOTT CO., INC.**
Ketay Dept., Norden Div., United Aircraft Corp.
Lear, Inc., Grand Rapids Div.
W. L. Maxson Corp., The
Minneapolis-Honeywell Regulator Co., Aeronautical Div.
Minneapolis-Honeywell Regulator Co., Boston Div.
Pioneer Tool & Engrg. Co.
Power-Tronic Systems Inc.
Sperry Gyroscope Co., Marine Div., Div.-Sperry Rand Corp.
Sperry Piedmont Co. – Div.-Sperry Rand Corp.
Sterling Precision Corp., Instrument Div.
Summers Gyroscope Co.
United States Time Corp.
Waste King Corp., Technical Products Div.
Westinghouse Electric Corp.
Whittaker Gyro. Div.-Telecomputing Corp.

HAMMERS

Aircraft Tools, Inc.
Barrett-Christie Co.
Billings & Spencer Co., The
Black & Decker Mfg. Co., The
Capewell Mfg. Co.
Chicago Rawhide Mfg. Co.
Division Lead Co.
Greene, Tweed & Co.
High Speed Hammer Co., Inc., The
Hunter Tool Co.
Lemert Engrg. Co., Inc.
Owatonna Tool Co.
Simonds Saw & Steel Co.
Snap-On-Tools Corp.
Stanley-Judd Div.-The Stanley Works
Superior Pneumatic & Mfg., Inc.
TA Mfg. Corp.
Vlchek Tool Co., The

HAND DRILLS
See DRILLS, HAND

HAND OR MECHANICAL TOOLS
See TOOLS, HAND OR MECHANICAL

HAND SETS

National Pneumatic Co., Inc., Holtzer-Cabot Divs.
Perry Plastics, Inc.
Roanwell Corp.
J. H. Sessions & Son
Specialty Engrg. & Electronics Co.
Wheeler Electronic Corp., Sub.-Sperry Rand Corp.

HANDLES

Abalon Precision Mfg. Corp.
Adams Rite Mfg. Co.
Allied Plastics Supply Corp.
Amatom Electronic Hardware Co. Inc.
American Aeroparts
American Insulator Corp.
Anchor Metal Spinning Co., The
***BALCRANK INC., MACHINE TOOL DIV.**
Barrett-Christie Co.
Bendix Aviation Corp., Friez Instrument Div.
Cambridge Thermionic Corp.
Dimco-Gray Co.
Double E Products Co.
Freeman Co., The
Goe Engrg. Co.
Lerco Electronics, Inc.
National Lock Co.
PIC Design Corp., Sub.-Benrus Watch Co., Inc.
Rubbercraft Corp. of California
Schlegel Mfg. Co.
Specialty Engrg. & Electronics Co.
Stanley-Judd Div.-The Stanley Works
TA Mfg. Corp.
Vemaline Products Co.

HANDLES, LEATHER

Aero Leather Products Co.
Auburn Mfg. Co., The
TA Mfg. Corp.

HARDWARE

Abalon Precision Mfg. Corp.
Adams Rite Mfg. Co.
Aero Bolt & Screw Co., Inc.
All Specs Corp.
Alpine Electronic Components, Inc.
Amatom Electronic Hardware Co. Inc.
American Aeroparts
Anchor Metal Spinning Co., The
Anti-Corrosive Metal Products Co., Inc.
Arnav Aircraft Associates, Inc.
***AVCO MFG. CORP., CROSLEY DIV.**
***BEATON & CORBIN MFG. CO., THE**
Best Aircraft Corp.
Bland Burner Co., The
Burklyn Co.
Calinoy-Div.-Illinois Tool Works
Cambridge Thermionic Corp.
Capewell Mfg. Co.
Carmac Aviation
Century Fasteners Corp.
Cooper Industries, Inc.
Corbin Products Div.
Double E Products Co.
R. C. Dudek & Co.
Eddington Metal Specialty Co.
Emmco Plastic Fabricators - Div.-E. M. McCarthy Machine Co.
Federal Screw Products Inc.
Forsberg Mfg., Co., The
Goe Engrg. Co.
Gordon Enterprises
Helipot Div.-Beckman Instruments Inc.
Hobson Brothers, Inc.
Hoosier Tarpaulin & Canvas Goods Co., Inc.
Industrial Television Inc.
Ingersoll Kalamazoo Div., Borg-Warner Corp.
Jan Hardware Mfg. Co., Inc.
Kaynar Mfg. Co., Inc.
Keystone Electronics Corp.
H. Koch & Sons
Lerco Electronics, Inc.
Litton Industries, U. S. Engrg. Co., Div.
Lucas Aircraft Supply Co.
Mercury Air Parts Co., Inc.
Monogram Precision Industries
J. I. Morris Co.
National Lock Co.
Newbrook Machine Corp.
Raytheon Mfg. Co.
Richards-Wilcox Mfg. Co.
J. H. Sessions & Son
Shur-Lok Corp.
Solar Aircraft Co.
Stanley-Judd Div.-The Stanley Works
Stone City Products Co.
Thompson-Bremer & Co.
Vector Electronic Co.
Vemaline Products Co.
Waldom Electronics Inc.
Westfield Metal Products Co., Inc.
Wilcox-Crittenden Div., North & Judd Mfg. Co.
Yale & Towne Mfg. Co., The,-Government Defense Products Div.

HARDWARE, PARACHUTE
See PARACHUTE HARDWARE

HARNESSES
a. Electric
b. Ignition
c. Thermocouples
d. Wire

Amp Inc., a.
Advanced Electronics, Inc., a, c, d.
Aero Research Instrument Co. Inc., c.
Aerojet-General Corp., a thru d.
Aerolite Electronics Corp., a.
Aircraft Tools, Inc., a, c, d.
Airtronics International Corp., d.
Alden Products Co., d.
Alto Scientific Co., Inc., a.
Amelco, Inc., a.
American Aeroparts, b.
American Bosch Arma Corp., a, d.
American Electric Cable Co., a, b, c.
American Machine & Foundry Co., Government Products Group, a.
American Missile Products Co., Inc., a, c.
Amphenol Connector Div., Amphenol-Borg Electronics Corp., a thru d.
Anchor Specialty Mfg. Co. Inc., a, b, d.
Atlas Coil Inc., a.
Auburn Spark Plug Co., Inc., b.
***BEATON & CORBIN MFG. CO., THE, a, c.**
W. A. Beauchaine & Sons Inc., a.
Bendix Aviation Corp., Scintilla Div., a thru d.
Bemco Engrg. Corp., a thru d.
Birnbach Radio Co., Inc., d.
Bliss Electronic Corp., a, d.
Brach Mfg. Corp., Div.-General Bronze, d.
William Brand & Co., Inc., a, c, d.
Breeze Corporations, Inc., b.
Bristol Co., The, c.
Cable Electric Products Inc., a, d.
***CANNON ELECTRIC CO., a.**
Chalco Engrg. Corp., a.
Chrysler Corp., Defense Operations Div.
Clippard Instrument Lab., Inc., a.
Continental Technical Service, Inc., a, d.
Co-Operative Industries, Inc., a thru d.
Cornish Wire Co. Inc., d.
Dalmotor Div., Yuba Consolidated Industries, Inc., a, d.
Dayton Aviation Radio & Equipment Corp., a, d.
Detronic Industries, a, d.
Double E Products Co., a thru d.
Dresser Industries, Inc., d.
Electric Auto-Lite Co., The, a, b, d.
Electric Cords & Supply Corp., a, b, c.
Electromath Corp., a, b.
Electro-Mechanical Products Co., a, d.
Electron Products Co., a, d.
Emerson Radio & Phonograph Corp., a, d.
Empire Electronics Co., Inc., a, d.
Erie Resistor Corp., d.
Essex Wire Corp., a, d.
***ETS-HOKIN & GALVAN, a.**
Federal Mfg. & Engrg. Corp., a.
First Electronics Corp., The, a, b, d.
General Electric Co., Apparatus Sales Div., c.
Claud S. Gordon Co., c.
Gordon Enterprises, a, c.
Gunnar Laboratories, a.
Hallett Mfg., Co., a thru d.
Harco Labs., Inc., a, b, c.
Hi-Lo Manufacturing Corp., d.
Hughes Tool Co., Aircraft Div., a, d.
Industrial Television Inc., c.
Jefferson Electronic Products Corp., a thru d.
Jeta, Inc., a, d.
Kulka Electric Corp., a, d.
Land-Air Inc., a.
Leeds & Northrup Co., b.
***LEWIS ENGRG. CO., THE, a, c.**
Mac Leod & Hanopol, Inc., a.
J. E. Menaugh Co., b.
Minneapolis-Honeywell Regulator Co., Industrial Product Group, c.
Minneapolis-Honeywell Regulator Co., Ordnance Div., a.
Minnesota Mining & Mfg. Co., a, d.
Modelectric Products Corp., a, b.
Motorola Inc., Military Electronics Div., d.
Mutron Corp., a thru d.
National Pneumatic Co., Inc., Holtzer-Cabot Divs., a, b, d.
M. M. Newman, Corp., a, d.
Pacific Scientific Co., a, c, d.
Packard Electric Div.-General Motors Corp., a, b, d.
Paraplegics Mfg. Co., Inc., a, c.
Projects Unlimited Inc., a, c, d.
Revere Corp. of America, a, c, d.
***RHEEM MFG. CO., DEFENSE & TECHNICAL PRODUCTS DIV., a.**
Fred T. Roberts & Co., a.
Milton Ross Metals Co., The, a.
Rowe Industries, a.
Royal Industries, Inc., a.
Sangamo Electric Co., d.
Sequoia Wire & Cable Co., Div.-Mandrel Industries, Inc., c, d.
Sheltered Workshops, a, d.
Sittler Corp., d.
Specialty Engrg. & Electronics Co., a.
Stanley-Judd Div.-The Stanley Works
Suffolk Products Corp., a.
TA Mfg. Corp., a, b, c, d.
T-C Div., Dyna-Empire, Inc., a thru d.
Telectro Industries Corp., a thru d.
Thermo Electric Co., Inc., c.
Thomas Electronics, Inc., a thru d.
Titeflex, Inc., b.
Tricraft Products Corp., d.
Tri-Dex Co., a, d.
Twin Coach Co., Aircraft-Missiles, a.
Webcor, Inc., Government Div., a thru d.
Westbury Electronics Inc., d.
Western International Co., d.
Westwood Cable Corp., a.
Wheeler Electronic Corp., Sub.-Sperry Rand Corp., a, d.
Whitaker Cable Corp., a, d.
Winder Aircraft Corp. of Florida, a thru d.

HEADERS

American Aeroparts
Amphenol Connector Div., Amphenol-Borg Electronics Corp.
Cooper Industries, Inc.
Dage Electric Co., Inc.
Garde Mfg. Co.
Mercury Tool & Mfg. Corp.
Networks Electronic Corp.
Pilgrim Products Inc.
Precision Sheet Metal, Inc.
Milton Ross Metals Co., The
Strat-O-Seal Mfg. Co.
Thomas Electronics, Inc.

HEADPHONES & HEADSETS

C. F. Cannon Co.
Electronic Applications, Inc.
ITT-Kellogg
Edwin A. Lipps Engrg.
National Pneumatic Co., Inc., Holtzer-Cabot Divs.
Perry Plastics, Inc.
Roanwell Corp.
Superex Electronics Corp.
Telectro Industries Corp.

HEADS, COMPUTER

Alwac Corp.
General Transistor Western Corp.
Librascope Inc.
Shure Brothers, Inc.
Soroban Engrg., Inc.

HEADSETS & HEADPHONES
See HEADPHONES & HEADSETS

HEAT DISSIPATORS
See DISSIPATORS, HEAT

HEAT TRANSFER CONTROL SYSTEMS

***AIRESEARCH MFG. CO., DIV.-THE GARRETT CORP.**
Arde-Portland, Inc.
***BENDIX AVIATION CORP., HAMILTON DIV.**
Bowser, Inc., Defense Dept.
Griscom-Russell Co., The
Hallicrafters
Hanlon & Wilson Co., The
Paul Hardeman, Inc.
***JANITROL AIRCRAFT DIV., SURFACE COMBUSTION CORP.**
Marlo Coil Co.
Monogram Precision Industries
Pneumatil Corp.
Project Fabrication Corp.
South Wind Div., Stewart Warner Corp.
Thiokol Chemical Corp.
Trane Co., The
Tranter Mfg., Inc.
United Aircraft Products, Inc.
Waste King Corp., Technical Products Div.

HEAT TREATING SERVICE

ACF Industries Inc.
Aerodex, Inc.
Aeronca Mfg. Corp.
Alco Products, Inc.
American Gas Furnace Co.
American Steel Foundries, Hammond Div.
Benson Mfg., Co., The
E. W. Bliss Co.
California Aircraft Products
Curtiss-Wright Corp.-Propeller Div.
Curtiss-Wright Corp.-South Bend Div.
Curtiss-Wright Corp.-Wright Aeronautical Div.
Diversey Engrg. Co.
Dynacor, Inc.
Ferrotherm Co., The
Graflex Inc.
C. I. Hayes, Inc.
High Vacuum Equipment Corp.
Induction Heating Corp.
Jan Hardware Mfg. Co., Inc.
Kanarr Corp.
M. W. Kellogg Co., The
Kelsey-Hayes Co.
Klock Corp.
Charles E. Larson & Sons, Inc.
Longren Aircraft Co., Inc.
***LYCOMING DIV., AVCO MFG. CORP.**
Metal Treating Institute
Metal-Glass Products Co.
Metallurgical, Inc.
Norris-Thermador Corp.
Papesch & Kolstad, Inc.
Piasecki Aircraft Corp.
Precision Castings, Inc.
Red Lion Cabinet Co., Redco Tool Div.
Sargeant & Wilbur Heat Treating Corp.
Solar Aircraft Co.
Solon Foundry, Inc.
Taft-Peirce Mfg. Co., The
Teiner Engrg. Corp.
True Alloys Inc.
Twigg Industries
Veet Industries

HEATER MUFFLER ASSEMBLIES

American Air Filter Co., Defense Products Div.
Colonial Aircraft Corp.
Hanlon & Wilson Co., The
Kaiser Aircraft & Electronics, Div.-Kaiser Industries Corp.
Norton Co., New Products Dept.
Piasecki Aircraft Corp.
Portland Copper & Tank Works Inc.

HEATERS

***AIRESEARCH MFG. CO., DIV.-THE GARRETT CORP.**
American Air Filter Co., Defense Products Div.
Bradford Components, Inc.
Briscoe Mfg. Co.
Bulow Electric Co.
Cole Electric Co.
Corning Glass Works
Cox & Co., Inc.
Cutler-Hammer Inc.
Dampp-Chaser, Inc.
Dean Products, Inc.
Electric Heater Co., The
Electro-Flex Heat, Inc.
Electro-Mechanical Products Co.
Electro-Tech Equipment Co.
Engelhard Industries, Inc.
General Electric Co., Apparatus Sales Div.
Giannini Plasmadyne Corp.
Goodyear Tire & Rubber Co., The, Aviation Products Div.
Griscom-Russell Co., The
Haddam Mfg. Co., The
Hanlon & Wilson Co., The
Hussmann Aircraft Div.
Janco Corp.
***JANITROL AIRCRAFT DIV., SURFACE COMBUSTION CORP.**
Jet-Heet, Inc.
Minco Products, Inc.
Perfection Industries, Div.-Hupp Corp.
Edw. Rennebury & Sons Co.
Rome-Turney Radiator Co., The
Rosemount Engrg. Co.
Safeway Heat Elements, Inc.
Selas Corp. of America
South Wind Div., Stewart Warner Corp.
Special Projects Lab., Food Machinery & Chemical Corp.
Statikil, Inc., Div.-The J. E. Doyle Co.
Temperature Engrg. Corp.
Thermal Refractories Corp.
Therm-O-Lab Corp.
Trane Co., The
United Aircraft Products, Inc.
Universal Dynamics Corp.
Western Gear Corp.
Westinghouse Electric Corp.
Edwin L. Wiegand Co.

HEATING COILS
See COILS, HEATING

HEATING ELEMENTS
See ELEMENTS, HEATING

HEATING EQUIPMENT, DIELECTRIC
See DIELECTRIC HEATING EQUIPMENT

HEATING EQUIPMENT, FLEXIBLE

Briscoe Mfg. Co.
Cox & Co., Inc.
Dean Product, Inc.
Electro-Flex Heat, Inc.
Era Engrg. Inc.
General Electric Co., Apparatus Sales Div.
B. F. Goodrich Aviation Products
Goodyear Tire & Rubber Co., The, Aviation Products Div.
Haddam Mfg. Co., The
A. F. Holden Co., The
***JANITROL AIRCRAFT DIV., SURFACE COMBUSTION CORP.**
Jet-Heet, Inc.
Marlo Coil Co.
Minco Products, Inc.
Monogram Precision Industries
Paul Nurches Co.
Rome-Turney Radiator Co., The
Safeway Heat Elements, Inc.
Stainless Steel Products, Inc.
Temperature Engrg. Corp.
United Aircraft Products, Inc.
Edwin L. Wiegand Co.

HEATING EQUIPMENT, INDUCTION
See INDUCTION HEATING EQUIPMENT

HEATING POTS & TANKS
See POTS & TANKS, HEATING

HERMETIC SEALING SERVICE
See SEALING SERVICE, HERMETIC

HERMETICALLY SEALED CANS
See CANS, HERMETICALLY SEALED

HIGH H PERMEAMETERS
See PERMEAMETERS, HIGH H

HIGH PRESSURE PLASTIC LAMINATORS
See LAMINATORS, PLASTIC, HIGH TEMPERATURE

HIGH TEMPERATURE ADHESIVES
See ADHESIVES, HIGH TEMPERATURE

HIGH TEMPERATURE CERAMICS
See CERAMICS, HIGH TEMPERATURE

HIGH TEMPERATURE COILS
See COILS, HIGH TEMPERATURE

HIGH VOLTAGE CONNECTORS
See CONNECTORS, HIGH VOLTAGE

HINGES

All American Engrg. Co.
American Aeroparts
Anchor Metal Spinning Co., The
Barrett-Christie Co.
Burklyn Co.
Century Fasteners Corp.
Corbin Products Div.
Electro-Flex Heat, Inc.
National Lock Co.
Precision Shapes, Inc.
Richards-Wilcox Mfg. Co.
Stanley-Judd Div.-The Stanley Works
TA Mfg. Corp.

HOISTS, AIRBORNE

Acco Equipment Div., American Chain & Cable Co., Inc.
Air Logistics Corp.
***AIRESEARCH MFG. CO., DIV.-THE GARRETT CORP.**
All American Engrg. Co.
American Machine & Foundry Co., Greenwich
Bendix-Pacific Div., Bendix Aviation Corp.
Bendix Utica Div., Bendix Aviation Corp.
Benson Mfg., Co., The
Breeze Corporations, Inc.
Crane Carrier Corp.
Cromer Mfg. & Engrg., Inc.
Curtiss-Wright Corp.-South Bend Div.
Foote Bros. Gear & Machine Corp.
Jack & Heintz, Inc.
Hoover Electric Co.
Kelsey-Hayes Co.
Longren Aircraft Co., Inc.
Piasecki Aircraft Corp.
Red Lion Cabinet Co., Redco Tool Div.
Regent Jack Mfg, Co., Inc.
***RHEEM MFG. CO., DEFENSE & TECHNICAL PRODUCTS DIV.**
Sargent Engrg. Corp.
Silent Hoist & Crane Co.
Talley Corp., The
Vard Inc.
Waste King Corp., Technical Products Div.
Western Design, Div.-U.S. Industries, Inc.; Santa Barbara Div.
Western Gear Corp.
Yale & Towne Mfg. Co., The,-Government Defense Products Div.

HOISTS, GROUND

Acco Equipment Div., American Chain & Cable Co., Inc.
American Aeroparts
American Machine & Foundry Co., Government Products Group
American Machine & Foundry Co., Greenwich
Baker Industrial Trucks, Div.-Otis Elevator Co.
Barrett-Christie Co.
Beaver Precision Products Inc.
Bendix Utica Div., Bendix Aviation Corp.
Bil-Jax Inc.
E. W. Bliss Co.
Breeze Corporations, Inc.
Albert H. Cayne Equipment Corp.
Chicago Pneumatic Tool Co.
Chisholm-Moore Hoist Div., Columbus McKinnon Chain Corp.
Coffing Hoist Div., Duff-Norton Co.
Control Engrg. Co., Div. Jervis B. Webb Co.
Crane Carrier Corp.
Cromer Mfg. & Engrg., Inc.
Curtiss-Wright Corp.-South Bend Div.
Detroit Hoist & Machine Co.
Dresser Industries, Inc.
Emerson Electric Mfg. Co., The, Electronics & Avionics Div.
G. W. Galloway Co.
Gardner-Denver Co.
Hoover Electric Co.
Hufford Corp., The
Jack & Heintz, Inc.
Longren Aircraft Co., Inc.
Mc Dowell-Wellman Companies, The
Morse Instrument Co., The
Regent Jack Mfg, Co., Inc.
Robbins & Myers, Inc., Hoist & Crane Div.
Rotary Lift Co., Div.-Dover Corp.
Royal Industries, Inc.
Santa Anita Engrg. Co.
Sargent Engrg. Corp.
Silent Hoist & Crane Co.
Stainless Inc.
Talley Corp., The
Western Design, Div.-U.S. Industries, Inc.; Santa Barbara Div.
Western Gear Corp.
Wheland Co., The
Yale & Towne Mfg. Co., The,-Government Defense Products Div.

HOLDERS, CHASSIS

Anchor Metal Spinning Co., The
Challenge Machinery Co., The
Hardman Tool & Engrg., Co.
Ludwig Honold Mfg. Co.
Longren Aircraft Co., Inc.
Mercury Tool & Mfg. Corp.
Mid-West Metal Products, Inc.
Monogram Precision Industries
Piasecki Aircraft Corp.

HOLDERS, CRYSTAL

Aircom Inc. of New Jersey
Augat Brothers, Inc.
Demornay-Bonardi
Diamond Antenna & Microwave Corp.
Douglas Microwave Co., Inc.
Javex Electronics
E. F. Johnson Co.
Microlab
Microwave Associates, Inc.
Motorola Inc., Military Electronics Div.
Portchester Instrument Corp.
Sage Labs., Inc.
Special Instruments Div., British Industries Corp.
Staver Co., Inc., The
Victor R. F. & Microwave Co.
Waldom Electronics Inc.

HOLDERS, FUSE

Accurate Electronics Corp., Dept. D
Alden Products Co.
Augat Brothers, Inc.
Garde Mfg. Co.
Janco Corp.
Howard B. Jones Div.-Cinch Mfg. Corp.
Kulka Electric Corp.
Pilgrim Products Inc.
Raytheon Mfg. Co.
Staver Co., Inc., The
Wilks Precision Instrument Co., Inc.

HORNS, MICROWAVE

Ainslie Corp.
Aircom Inc. of New Jersey
Airtron Inc., Div.-Litton Industries
American Machine & Foundry Co., Greenwich
Bogart Mfg. Corp.
Brooks & Perkins, Inc.
Budd Stanley Co. Inc.
Cooper Development Corp., Sub.-Marquardt Aircraft Co.
Demornay-Bonardi
Diamond Antenna & Microwave Corp.
Douglas Microwave Co., Inc.
FXR, Inc.
GAR Precision Parts, Inc.
John Gombos Co., Inc.
Walter J. Hyatt Co., The
I-T-E Circuit Breaker Co.
ITT Federal Div., International Telephone & Telegraph Corp.
J-V-M Microwave Co.
D. S. Kennedy & Co.
Lieco, Inc.
Litton Industries, Inc.
Litton Industries, Mayland Div.
W. L. Maxson Corp., The
Meridian Metalcraft, Inc.
Microwave Associates, Inc.
Monogram Precision Industries
Motorola Inc., Military Electronics Div.
N.R.K. Mfg. & Engrg. Co.
Narda Microwave Corp., The
Omega Labs., Inc.
Polarad Electronics Corp.
Radar Design Corp.
Radiatronics, Inc.
Sage Labs., Inc.
Scientific-Atlanta, Inc.
Sperry Microwave Electronics Co., Div.-Sperry Rand Corp.
Stainless Inc.
Suffolk Products Corp.
Telerad Mfg. Corp.
Turbo Machine Co.
Victor R. F. & Microwave Co.
Walworth Co. Electronics Div.
Washington Aluminum Co., Inc.
Waveline, Inc.
Wheeler Laboratories, Inc.

HORNS, SPEAKER PROJECTOR

Kling Metal Spinning & Stamping Co.

HOSE

a. Air
b. Assemblies, Flexible
c. Flexible, Metallic
d. Flexible, Non Metallic
e. Hydraulic

Aeroquip Corp., Jackson Div., a, b, d, e.
All Specs Corp., b thru e.
Allied Plastics Supply Corp., a thru e.
American Brass Co., The, a, b, c.
Anaconda Metal Hose Div., The American Brass Co., a thru e.
Anchor Coupling Co. Inc., a, b, d, e.
Anchor Packing Co., The
Atlantic Metal Hose Co., Inc., b, c.
Avica Corp., b, c.
Barrett-Christie Co., a thru e.
***BEATON & CORBIN MFG. CO., THE**, b, e.
Borden Chemical Co., d.
Breeze Corporations, Inc., c.
Bridgeport Brass Co., c.
Carmac Aviation, a thru e.
Century Fasteners Corp., b, c, e.
Chemplast, Inc., d.
Chicago Pneumatic Tool Co., a.
Chiksan Co., Sub.-Food Machinery & Chemical Corp., b.
Cobra Metal Hose Div. D K Mfg. Co., a, b, e.
Components Corp., c.
Continental Rubber Works, a, e.
Herbert Cooper Co., Inc., b, d.
Cooper Industries, Inc., c.
Co-Operative Industries, Inc., a, b, c, e.
D K Mfg. Co., b, c.
C. R. Daniels, Inc., d.
Dayton Rubber Co., The, a, b, c.
Dunbar-Kapple Inc.-Aircraft Components Div., b thru e.
Electric Hose & Rubber Co., a thru e.
Flexaust Co., The, a, d.
Flexible Metal Hose Mfg. Co., b, c.
Flexible Tubing Corp., a, b, d.
***FLEXONICS CORP., AERONAUTICAL DIV.**, a thru e.
Gering Products, Inc., d.
B. F. Goodrich Aviation Products, a, d.
B. F. Goodrich Industrial Products Co., a, b, d, e.
Goodyear Tire & Rubber Co., The, Aviation Products Div.
Gray Co., Inc., a, e.
Hallett Mfg., Co., b, c.
Hannifin Co., Div.-Parker-Hannifin Corp., b, d, e.
Hewitt-Robins, Inc., a, b, d.
Imperial Brass Mfg. Co., The, a, b, d, e.
Jessall Plastics, d.
Jodee Plastics Co., d.
M & Q Plastic Products, a, b, d, e.
Matheson Co., Inc., The, c, d.
Minnesota Mining & Mfg. Co., b, d.
J. J. Monaghan Co., Inc., b.
New England Tape Co., Div.-United-Carr Fastener Corp., d.
Orchard Industries, Inc., Actionflex Div., a, b, d, e.
Owatonna Tool Co., e.
Parker Fittings & Hose Div., Parker-Hannifin Corp., b, d, e.
Parts Engrg. Co., Inc., b, c.
Polymer Corp., The, a, d, e.
H. K. Porter Co., Inc., Thermoid Div., a, d, e.
Pyles Industries, Inc., a, e.
Raybestos-Manhattan, Inc., a, d, e.
Raybestos-Manhattan, Inc., Pa., a, d, e.
Resistoflex Corp., a, b, d, e.
Fred T. Roberts & Co., a, b, d.
Ronan & Kunzl, Inc., c.
Saylor Electric Products Corp., d.
Sparta Mfg. Co., Div.-U.S. Ceramic Title Co., d.
Standard-Thomson Corp., Clifford Mfg. Co. Div., c.
Stratoflex, Inc., a, b, d, e.
Swan Rubber Co., a, d.
Titeflex, Inc., a thru e.
United States Rubber Co., a, d, e.
***WEATHERHEAD CO., THE**, a, b, d, e.
Winder Aircraft Corp. of Florida, a thru e.
Z & W Mfg. Corp., b.
Zallea Brothers, b, c.

HOT DIPPED TINNING
See TINNING, HOT DIPPED

HUMIDITY CONTROL SYSTEMS

***AIRESEARCH MFG. CO., DIV.-THE GARRETT CORP.**
Airtemp Div., Chrysler Corp.
American Instruments Co., Inc.
Associated Engineers, Inc.
Bri tol Co., The
CDC Control Services, Inc.
Carrier Corp.
Ellis & Watts Products, Inc.
Epic, Inc.
Instruments Corp., The
International Radiant Corp.
Lear, Inc.
Minneapolis-Honeywell Regulator Co., Industrial Product Group
Minneapolis-Honeywell Regulator Co., Ordnance Div.

Missimers Inc.
New England Scientific Instruments Co.
Photobell Co., Inc.
Piasecki Aircraft Corp.
Pioneer Industries Div., Almar-York Co. Inc.
Project Fabrication Corp.
Research Products Corp.
Scientific Instrument Co.
Skyline Electric & Mfg. Co.
Spraying Systems Co.
Surface Combustion Corp.
Thompson Engrg. Co., The, Missile Products Div.
United Aircraft Products, Inc.
United Electric Controls Co.
United States Dynamics Corp.
Warren Components, Div. El-Tronics, Inc.
Weston Instruments, Div.-Daystrom, Inc.
Winder Aircraft Corp. of Florida
Winzen Research Inc.
Worner Electronic Devices

HYBRID, MICROWAVE JUNCTIONS
See JUNCTIONS, HYBRID, MICROWAVE

HYDRAULIC ACCUMULATORS
See ACCUMULATORS, HYDRAULIC

HYDRAULIC AUTOMATIC PILOTS
See AUTOMATIC PILOTS, HYDRAULIC

HYDRAULIC OILS, COOLANTS, FLUIDS
See FLUIDS, HYDRAULIC OILS, COOLANTS, ETC.

HYDRAULIC RESERVOIRS

Accessory Products Co., Div.-Textron Inc.
American Bosch Arma Corp.
Applied Dynamics Corp.
Astronautics Engrg. Co.
Bendix-Pacific Div., Bendix Aviation Corp.
Cadillac Gage Co.
Colonial Aircraft Corp.
Cooper Development Corp., Sub.-Marquardt Aircraft Co.
Denison Engrg. Div., American Brake Shoe Co.
Eastern Industries Inc.
Globe Hoist Co.
Greer Hydraulics, Inc.
Hannifin Co., Div.-Parker-Hannifin Corp.
Haskel Engrg. & Supply Co.
Horkey-Moore Associates
Hufford Corp., The
Hull Corp.
Integral Corp.
Kahn & Co., Inc.
Kaiser Aircraft & Electronics, Div.-Kaiser Industries Corp.
Mercury Tool & Mfg. Corp.
Oil-Dyne, Inc.
Ozone Metal Products Corp.
Parker Aircraft Co.
H. K. Porter Co., Inc.
Pressed Steel Tank Co.
Racine Hydraulics & Machinery Inc.
Randall Engrg. Corp.
Red Lion Cabinet Co., Redco Tool Div.
Sargent Engrg. Corp.
Sun Electric Corp., Aeronautical Div.
United Aircraft Products, Inc.
Vickers Inc., Div.-Sperry Rand
Vinson Mfg. Co. Inc.
Watertown Div., The New York Air Brake Co.
Wise Aerodraulics, Inc.

HYDRAULIC SYSTEMS & CONTROLS

Adel Precision Products, Div. General Metals Corp.
Adel Precision Products of California, Div.-General Metals Corp.
***AIRESEARCH MFG. CO., DIV.-THE GARRETT CORP.**
American Bosch Arma Corp.
American Brake Shoe Co.
American Brake Shoe Co., Kellogg Div.
American Machine & Foundry Co., Government Products Group
American Machine & Foundry Co., Greenwich
American Measurement & Control, Inc.
Applied Dynamics Corp.
Ardmore Products
Associated Engineers, Inc.
***ASSOCIATED TESTING LABS., INC.**
Astronautics Engrg. Co.
***BENDIX AVIATION CORP., HAMILTON DIV.**
***BENDIX PRODUCTS DIV., BENDIX AVIATION CORP.**
Bendix Utica Div., Bendix Aviation Corp.
Bendix-Pacific Div., Bendix Aviation Corp.
Blackhawk Mfg. Co.
E. W. Bliss Co.
Bowser, Inc., Defense Dept.
Bristol Co., The
Cadillac Gage Co.
Carruthers & Fernandez, Inc.
Colonial Aircraft Corp.
Com-Air Products, Div.-A S R Products Corp.
Commercial Shearing & Stamping Co.
Components Corp.
Consolidated Controls Corp.
Consolidated Diesel Electric Corp.
Consolidated Diesel Electric Corp., Test Equip. Div.
Consolidated Diesel Electric Corp., Western Div.
Control Engrg. Co., Div. Jervis B. Webb Co.
Denison Engrg. Div., American Brake Shoe Co.
Diversey Engrg. Co.
Dumont Aircraft Fitting Co.
Dunbar-Kapple Inc.-Aircraft Components Div.
Eastern Industries Inc.
Emerson Electric Mfg. Co., The, Electronics & Avionics Div.
Galland-Henning Nopak Div.
G. W. Galloway Co.
General Electric Co., Apparatus Sales Div.
Globe Hoist Co.
Greer Hydraulics, Inc.
Hamilton Standard, Div.-United Aircraft Corp.
Haskel Engrg. & Supply Co.
Hufford Corp., The
Hughes Tool Co., Aircraft Div.
Hull Corp.
Walter J. Hyatt Co., The
Hydra-Power Corp.
Hydraulic Press Mfg. Co., The, Div.-Koehring Co.
***HYDRO-AIRE CO., DIV.-CRANE CO.**
Industrial Engrg. Corp.
Interstate Engrg. Corp.
Kahn & Co., Inc.
Kaiser Aircraft & Electronics, Div.-Kaiser Industries Corp.
***KEARFOTT CO., INC.**
Kelsey-Hayes Co.
Kemp Aero Products
Lear, Inc.
Lear Inc., Lear-Romec Div.
Leslie Co.
M. C. Mfg. Co.
Mc Dowell-Wellman Companies, The
Minneapolis-Honeywell Regulator Co., Aeronautical Div.
Minneapolis-Honeywell Regulator Co., Industrial Product Group
George L. Nankervis Co.
Norwood Controls Unit Detroit Controls Div.
Oil-Dyne, Inc.
Ordnance Div.-Food Machinery & Chemical Corp.
Owatonna Tool Co.
Ozone Metal Products Corp.
Parker Aircraft Co.
Pesco Products Div.-Borg-Warner Corp.
Pioneer Tool & Engrg. Co.
Pneu-Hydro Valve Corp.
H. K. Porter Co., Inc.
Racine Hydraulics & Machinery Inc.
Randall Engrg. Corp.
Red Lion Cabinet Co., Redco Tool Div.
Rivett Lathe & Grinder Inc.
Royal Industries, Inc.
Sancor Corp.
Sargent Engrg. Corp.
Sinclair-Collins Valve Co., Div.-IBEC
Sirvalco Systems Corp.
Skyvalve Inc.
Space Corp.
A. U. Stone & Co., Inc.
Sun Electric Corp., Aeronautical Div.
Tactair Valve Div.-Aircraft Products Co.
Trimount Instrument Co.
Turbo Products, Inc.
United Aircraft Products, Inc.
United Electric Controls Co.
Valcor Engrg. Corp.
Vickers Inc., Div.-Sperry Rand
Vickers Inc., Marine & Ordnance Dept., Machinery Hydraulics Div.
Vinson Mfg. Co. Inc.
Waldorf Fluid Systems. Div.-F. C. Huyck & Sons
Watertown Div., The New York Air Brake Co.
Wayne Pump Co., The, Div.-Symington Wayne Corp.
Weston Hydraulics Ltd.-Sub., Borg-Warner Corp.
Wickfield, Inc.
Wise Aerodraulics, Inc.

HYDRAULIC SYSTEMS RESERVOIRS
See RESERVOIRS, HYDRAULIC SYSTEMS

HYDRAULIC SYSTEMS RESTRICTORS
See RESTRICTORS, HYDRAULIC SYSTEMS

HYDRAULIC VALVE OPERATOR
See VALVE OPERATOR, HYDRAULIC

HYDROMETERS

American Machine & Foundry Co., Government Products Group
Barrett-Christie Co.
Fischer & Porter Co.
Fisher Scientific Co.
General Scientific Equipment Co.
Piasecki Aircraft Corp.
Precision Thermometer & Instrument Co.
Scientific Instrument Co.
Weksler Instruments Corp.

IGNITERS, JET ENGINE

Aerojet-General Corp.
American Aeroparts
***AMERICAN POTASH & CHEMICAL CORP.**
Auburn Spark Plug Co., Inc.
B G Corp., The
Bendix Aviation Corp., Scintilla Div.
Breeze Corporations, Inc.
Champion Spark Plug Co.
Com-Air Products, Div.-A S R Products Corp.
Cooper Industries, Inc.
Electric Auto-Lite Co., The
General Laboratory Associates Inc.
Holex, Inc.
Hydrodyne Corp., Skinner Seal Div.
M. W. Kellogg Co., The
Kilgore Inc., International Flare-Signal Div.
J. E. Menaugh Co.
Plastic Age Sales, Inc.
***RHEEM MFG. CO., DEFENSE & TECHNICAL PRODUCTS DIV.**
Thiokol Chemical Corp.
United Aircraft Products, Inc.

IGNITERS, LIQUID & SOLID PROPELLANT

***MC CORMICK SELPH ASSOCIATES**
***PROPELLEX CHEMICAL DIV., CHROMALLOY CORP.**

IGNITION ASSEMBLIES

Aerolab Development Co.
Airtron Inc., Div.-Litton Industries
American Aeroparts
***AMERICAN POTASH & CHEMICAL CORP.**
Auburn Spark Plug Co., Inc.
***BEATON & CORBIN MFG. CO., THE**
Bendix Aviation Corp., Scintilla Div.
Breeze Corporations, Inc.
Cooper Development Corp., Sub.-Marquardt Aircraft Co.
Dynamic Devices, Inc.
Electric Auto-Lite Co., The
General Laboratory Associates, Inc.
Hallett Mfg., Co.
Holex, Inc.
J. E. Menaugh Co.
Modelectric Products Corp.
Rocketdyne Div.-North American Aviation, Inc.
Thermal Refractories Corp.
Thiokol Chemical Corp., Hunter-Bristol Div.
United Aircraft Products, Inc.

IGNITION ASSEMBLIES, SOLID ROCKET

Aerojet-General Corp.
Aerolab Development Co.
American Machine & Foundry Co., Greenwich
***AMERICAN POTASH & CHEMICAL CORP.**
American Rocket Co.
Astrodyne, Inc.
Auburn Spark Plug Co., Inc.
Beckman & Whitley, Inc., Missile Products Div.
Bendix Aviation Corp., Scintilla Div.
Breeze Corporations, Inc.
Cooper Development Corp., Sub.-Marquardt Aircraft Co.
Diversey Engrg. Co.
Dynamic Devices, Inc.
Holex, Inc.
M. W. Kellogg Co., The
Land-Air Inc.
***MC CORMICK SELPH ASSOCIATES**
Newbrook Machine Corp.
Olin Mathieson Chemical Corp., Energy Div.
***PROPELLEX CHEMICAL DIV., CHROMALLOY CORP.**
Red Lion Cabinet Co., Redco Tool Div.
***REDEL INC.**
***RHEEM MFG. CO., DEFENSE & TECHNICAL PRODUCTS DIV.**
Rohm & Haas Co., Redstone Arsenal Research Div.
Thiokol Chemical Corp.
Thiokol Chemical Corp., Hunter-Bristol Div.

IGNITION COILS
See COILS, IGNITION

IGNITION DISTRIBUTORS
See DISTRIBUTORS, IGNITION

IGNITION SYSTEMS, AIRBORNE

***AMERICAN POTASH & CHEMICAL CORP.**
Auburn Spark Plug Co., Inc.
Bendix Aviation Corp., Scintilla Div.
Breeze Corporations, Inc.
Cooper Development Corp., Sub.-Marquardt Aircraft Co.
General Laboratory Associates, Inc.
Hallett Mfg., Co.
Holex, Inc.
J. E. Menaugh Co.
Reaction Motors Div., Thiokol Chem. Corp.
United Aircraft Products, Inc.

IGNITION SYSTEMS, DISCONNECTS
See DISCONNECTS, IGNITION SYSTEMS

IGNITION SYSTEMS, ELECTRONIC

Aerolab Development Co.
Auburn Spark Plug Co., Inc.
Bendix Aviation Corp., Scintilla Div.
Cooper Development Corp., Sub.-Marquardt Aircraft Co.
Edgerton, Germeshausen & Grier, Inc.
Electric Auto-Lite Co., The
General Laboratory Associates, Inc.
Hallett Mfg., Co.
Holex, Inc.
Land-Air Inc.
Modelectric Products Corp.
Renwell Corp.

IGNITION TUBE ASSEMBLIES

***AMERICAN POTASH & CHEMICAL CORP.**
***BEATON & CORBIN MFG. CO., THE**
Bendix Aviation Corp., Scintilla Div.
Breeze Corporations, Inc.
Detronic Industries
Dynamic Devices, Inc.
General Laboratory Associates, Inc.
Hufford Corp., The
Mercury Tool & Mfg. Corp.
National Beryllia Corp.

IMPELLERS

Aerojet-General Corp.
Astronautics Engrg. Co.
Bendix Utica Div., Bendix Aviation Corp.
Capital City Mfg. Co.
J. C. Carter Co., The
Chandler Evans Corp.
Christie Machine Works
Curtiss-Wright Corp., Santa Barbara Div.
Curtiss-Wright Corp., Wright Aeronautical Div.
Electro-Mechanical Products Co.
Jarvis Corp.
Kelsey-Hayes Co.
Heinz Mueller Eng. Co. Inc.
Newbrook Machine Corp.
Parker-Hartford Corp., The
***RHEEM MFG. CO., DEFENSE & TECHNICAL PRODUCTS DIV.**
Schellens-True Corp.
Steel Improvement & Forge., The
Tapco Group, Thompson-Ramo-Wooldridge Inc.
Turbo Products, Inc.
Western Gear Corp.

INCLINOMETERS

Cadillac Gage Co.
Crescent Engrg. & Research Co.
Donner Scientific Co.
Electro-Mechanical Products Co.
Elgin Micronics Div.-Elgin National Watch Co.
***ENGIS EQUIPMENT CO.**

INDICATORS

a. Air Position
b. Airspeed
c. Angle-of-Yaw
d. Antenna Position
e. Arc Back
f. Arc-Over
g. Bank & Turn
h. Capacitor Leakage
i. Data Display
j. Detonation Indicators & Meters
k. Deviation
l. Dew Point
m. Dielectric Constant
n. Dive Angle
o. Drift
p. Engine Synchronizer
q. Film Thickness
r. Fluid Conductivity
s. Fluid Flow, Electronic
t. Frequency
u. Fuel Flow Rate
v. Fuel Mixture
w. Ground Position
x. Gyro
y. Humidity
z. Illumination
a1. Industrial
b1. Liquid Level, Electronics
c1. Magnetic Field
d1. Materials Thickness
e1. Modulation
f1. Moisture, Electronic
g1. Moving Target
h1. Null
i1. Null-Balance
j1. Oxygen
k1. PH
l1. Photographic Exposure
m1. Plan Position
n1. Pressure
o1. Proximity
p1. Pulse Timer Riser
q1. Radiation
r1. Radiation, Nuclear
s1. Rate-of-Climb
t1. Rate-of-Roll
u1. Rate-of-Yaw
v1. Recording Engine
w1. Remote
x1. Servo
y1. Smoke & Combustion, Electronic
z1. Sound Level
a1. Specific Gravity
b2. Speed
c2. Strain
d2. Telemetering
e2. Temperature
f2. Thrust
g2. Timing
h2. Torque
i2. True Air Speed
j2. Vacuum
k2. Variable
l2. Vibration
m2. Volume
n2. Weight
o2. Wind Direction
p2. Wind Speed, Electronic

ACF Industries Inc., n-1, j-2.
AMP Inc., m.
Acromag Inc., t, b-2.
Actuator Products Div., Geartronics Corp., a-1, b-2.
Advanced Products Co., The, g-2.
Aero Instrument Co., t, g-2.
Aero Supply Mfg. Inc., s.
Aeroflex Corp., The, Aeroflex Labs. Div., x, i-1.
Aerojet-General Corp., a-1, d-2.
Aerolite Electronics Corp., z.
Aerotec Corp., The, n-1.
Aircraft Porous Media, Inc., n-1.
***AIRESEARCH MFG. CO., DIV.-THE GARRETT CORP.**, b, c, i, n-1, u-1, e-2, f-2, i-2, j-2.
Airguide Instrument Co., y, e-2.
Airpax Electronics Inc. Seminole Div., b, t, b-2, a-2, p-2.
R. C. Allen Aircraft Instr. Div., R. C. Allen Bus. Machines, Inc., g, x.
Allied Chemical Corp., National Aniline Div., k-1.
Allied International Co., a, b, o, y, a-2.
Alto Scientific Co., Inc., g-2.
Amelco, Inc., t.
American Aeroparts, a, b, g, o, p, u thru x, j-1, k-1, s-1, x-1, l-2.
American Instruments Co., Inc., l, p, q, y, d-1, f-1, j-1, n-1, c-2, e-2.
American Machine & Foundry Co., Government Products Group, t, x-1, m-2, n-2.
American Machine & Foundry Co., Greenwich, i.
American Measurement & Control, Inc., s.
American Missile Products Co., Inc., d-2.
American Research & Mfg. Corp., l-2.
Amthor Testing Instrument Co., Inc., d-1.
R. B. Annis Co., c-1.
Antlab Inc., d.
Anton Electronic Labs., Inc., q-1, r-1.
Applied Science Corp. of Princeton, i, d-2.
***ARNOUX CORP.**, d-2, e-2.
Aro Equipment Corp., b-1, j-1.
Assembly Products, Inc., e-2.
Associated Engineers, Inc., y-1.
Astronautics Engrg. Co., u.
Atlantic Instrument Corp., Sub.-American Electronics, Inc., b-1, e-2.
Atlas Precision Products, Co., d, w-1, x-1, b-2, d-2, e-2, g-2.
Automation Dynamics Corp., i.
Automation Products, Inc., b-1, a-2.
Avien, Inc., s, u, b-1, e-2, l-2.
Avtron Mfg., Inc., e-1.
B & F Instruments, Inc., c-2, f-2, h-2.
B & H Instrument Co., Inc., t, h-1, i-1, e-2.
B & K Instruments, Inc., z-1, c-2, l-2.
Barker Sales Co., d-2, j-2.
Barton Instrument Corp., u, j-1, m-2.
Beckman Instruments, Inc., Berkeley Div., t, g-2.
Beckman & Whitley, Inc., Missile Products Div., e-2, a-2, p-2.
Beede Electrical Instrument Co. Inc., t, h-1, i-1.
Bell & Howell Co., l-1.
Belock Instrument Corp., x, x-1, d-2.
Bendix Aviation Corp., Eclipse-Pioneer Div., x, x-1.
Bendix Aviation Corp., Friez Instrument Div., y n-1, a-2, p-2.
Bendix Aviation Corp., Montrose Div., u, n-1, w-1, x-1.
Bendix Aviation Corp., Pioneer-Central Div., b, g, s, u, b-1, s-1.
Bendix Filter Div., Bendix Aviation Corp., n-1.
***BENDIX PRODUCTS DIV., BENDIX AVIATION CORP.**, u, v-1.
Bendix-Pacific Div., Bendix Aviation Corp., d-2.
Benson-Lehner Corp., i.
Bergen Labs., Inc., h-2.
James G. Biddle Co., t.
A. Biederman, Inc., b, c, d, k, n, t, u, h-1, i-1, j-1, s-1, a-2, p-2.
Bliss Electronic Corp., h.
Blonder-Tongue Labs., Inc., l-2.
Bowmar Instrument Corp., a, g, n, w, a-2.
Bowser, Inc., Defense Dept., s, u.
Branson Instruments, Inc., q, d-1.
Briggs Associates, Inc., i.
Bristol Co., The, l, r, s, t, y, z, a-1, f-1, h-1, i-1, j-1, n-1, v-1 thru y-1, a-2 thru d-2, g-2, j-2.
Brooks Rotameter Co., u, a-2.
Brush Instruments, Div.-Clevite Corp., c, u-1, v-1, x-1, b-2 thru e-2.
Burr-Brown Research Corp.
CDC Control Services, Inc., l, n-2.
Central Electronic Mfg., Div.-Nuclear Corp. of America, j-2.
Central Scientific Co., f-1, j-2.
Centronix Inc., d, i, c-2, d-2.
Chalco Engrg. Corp., s, b-1.
Chesapeake Instrument Corp., x-1.
Chicago Aerial Industries, Inc., i, w, l-1.
Collins Engrg. Corp., b, x, s-1.
Computer Instruments Corp., n-1.
Consolidated Controls Corp., n-1, a-1, e-2, f-2, h-2.
Consolidated Diesel Electric Corp., b, t, n-1, b-2, e-2, f-2, i-2, j-2.
Consolidated Electrodynamics Corp., i, f-1, n-1, c-2, d-2, l-2.
Control Data Corp., x.
Cornell Deep Drawing Co., Div.-Lanes Industries Corp., n-1.
Cox Instruments Div., George L. Nankervis Co., i, s, u, a-2, h-2.
Crescent Engrg. & Research Co., s, u, b-1, n-1, t-1, u-1, d-2, e-2, h-2.
Crown Controls Co., Inc., g.
Curtiss-Wright Electronics Div., IMI Branch, n-1, d-2.
Curtiss-Wright Corp., Research Div., a-1.
DBM Research Corp., i, d-2, g-2.
Data Instruments Div.-Telecomputing Corp., i.
Datran Electronics, Div.-Mid-Continent Mfg., Inc., i-1, x-1, c-2.
Daven Co., The, m-2.
Davis Instruments, j-1.
Daystrom Pacific Div.-Daystrom, Inc., b, c, i, x, i-1, s-1, t-1, u-1, w-1, x-1, e-2, f-2, i-2.
Daystrom Transicoil Div., Daystrom Inc., x-1.
Dayton Aviation Radio & Equipment Corp., a, d, i, k, w-1.
Daytronic Corp., c-2.
Dean Products, Inc., q-1.
Decker Corp., The, n-1, a-1, j-2, l-2.
Dejur-Amsco Corp., Electronic Sales Div., l-1, z-1, e-2, g-2.
Delsen Corp., m, d-1, f-1.
Device Development Corp., c-1.
J. W. Dice Co., q, d-1.
W. C. Dillon & Co., Inc., n-2.
Divco-Wayne Electronics, Div.-Divco-Wayne Corp., x-1.
Donner Scientific Co., a, b, c, x, h-1, i-1, s-1, t-1, u-1, i-2.
Dresser Industries, Inc., i, s, u, w-1, x-1, d-2.
Dresser Mfg. Div., Dresser Industries, Inc., u.
Driaire, Inc., y.
M. Ducommon Co., g-2.
Dymec Inc., i, t.
Eastman Kodak Co., l-1, q-1, r-1.
Edcliff Instruments, c, g, n-1, s-1, t-1, u-1, i-2.
Edgerton, Germeshausen & Grier, Inc., i, j, l-1, r-1, d-2, g-2, p-2.
Thomas A. Edison Ind. Instrument Div.-McGraw-Edison Co., k, t, a-1, h-1, n-1, w-1, x-1, y-1, e-2.
Eldorado Electronics, g-2.
Electro Instruments, Inc., i, a-1.
Electro Precision Corp., x-1.
Electro Products Laboratories, Inc., j, t, a-1, a-1, b-2, h-2, l-2.
Electronic Communications, Inc., i, g-1, m-1, w-1, d-2.
Electronic Control Corp., b-1, y-1, e-2, h-2.
Electron-Radar Products, y-1.
***ELECTROSNAP CORP.**, i, z, a-1, w-1.
Electro-Tech Equipment Co., e-2, g-2, l-2.
Elgin Micronics Div.-Elgin National Watch Co., h, p-1, v-1, g-2.
Elgin Micronics, West Coast Div.-Elgin National Watch Co., j, r-1, c-2, g-2.
Emerson Electric Mfg. Co., The, Electronics & Avionics Div., d, i, g-1, m-1, x-1.
Engelhard Industries, Inc., l, j-1, k-1.
Epic, Inc., t, y, e-2, l-2.
Era Engrg. Inc., r-1.
FXR, Inc., b-1, e-1.
Fae Instrument Corp., x-1.
Federal Mfg. & Engrg. Corp., l-1.
Federal Products Corp., d-1.
Fenwal Inc., e-2.
Fenwal Electronics, Inc., e-2.
Fischer & Porter Co., i, s thru v, a-1, b-1, j-1. n-1, a-2, e-2, j-2, m-2.
Fisher Governor Co., b-1.
Fisher Research Lab., Inc., b-1, f-1.
Fisher Scientific Co., y, j-1, k-1, n-1, a-2, e-2, j-2.
Flow Corp., p-2.
Flow Measurements Corp., s, u.
Ford Instrument Co., Div.-Sperry Rand Corp., a, w.
Freed Transformer Co. Inc., h-1.
Gardner Laboratory, Inc., q, y, d-1, f-1, e-2, a-2.
General Communication Co., a-2.
General Devices, Inc., i, t, p-2, d-2, g-2.
General Electric Co., Apparatus Sales Div., u, x, a-1, d-1, l-1, q-1, r-1, w-1, x-1, y-1, b-2, e-2, f-2, j-2.
General Electric Co., Metallurgical Products Dept., e-1.
General Electric Co., X-Ray Dept., b-1, d-1, q-1, r-1.
General Scientific Equipment Co., y, a-2.
Gilfillan Bros. Inc., a, c, d, w, g-1, m-1, t-1, u-1, x-1, d-2.
Gilmore Industries, Inc., i, s, u, i-1, n-1, c-2, e-2, f-2, h-2, n-2.
Good Electronic Corp., c-2, e-2, p-2.
Gordon Enterprises, l-1.
Graflex Inc., h-1.
Green Rectifier Co., j-2.
Gulton Industries, Inc., n-1, e-2.
Haledy Electronics Co., s, a-1.
Hallamore Electronics Co., x-1, d-2.
Hamilton Watch Co., Hathaway Instrument Div., c-2.
Harvey-Wells Electronics Inc., i.
***A. W. HAYDON CO., THE**, w-1, g-2.
Hays Corp., The, n-1.
Hazeltine Electronics Div.-Hazeltine Corp., a, i, w, g-1, m-1, w-1.
High Vacuum Equipment Corp., j-2.
E. Vernon Hill & Co., l, y.
Hoffman Labs. Div., Hoffman Electronics Corp., b, c, g, n, u, w, x, h-1, s-1, t-1, u-1, x-1, f-2, j-2, l-2.
Hogan Laboratories, Inc., i.
Hughes Tool Co., Aircraft Div.
Hull Corp., j-2.
Humphrey, Inc., c, n, x, t-1, u-1.
Walter J. Hyatt Co., The, x-1.
Hycon Mfg. Co., a, l-1.

I.D.E.A., Inc., i.
I-L-S Instrument Div., The Meriam Instrument Co., s, t, u, p-1.
ITT Labs., i, g-1, m-1, o-1.
ITT Labs.-Ft. Wayne, i, g-1.
Illinois Testing Laboratories, Inc., l, e-2.
Impact-O-Graph Corp., The, o-2.
Industrial Control Co., x-1, c-2.
Industrial Instruments Inc., h, r.
Industrial Test Equipment Co., h-1, i-1.
Industrial Timer Corp., g-2.
Ingraham Co., The, g-2.
Instruments Corp., The, l, y, d-2, e-2, o-2, p-2.
International Research & Development Corp., l-2.
Jansky & Bailey, Inc., q-1.
Jordan Co., Inc., The, x-1.
Kaiser Aircraft & Electronics, Div.-Kaiser Industries Corp., b, x, m-1, x-1.
Kauke & Co., d-2.
Kay Electric Co., t, z-1, l-2.
***KEARFOTT CO., INC.**
Keithley Instruments, Inc., i-1.
Ketay Dept., Norden Div., United Aircraft Corp., w-1.
Kinney Mfg. Div., The New York Air Brake Co., j-2.
Kin Tel Div.-Cohu Electronics, Inc., x-1.
Kollsman Instrument Corp., Sub.-Standard Coil Products Co. Inc., b, c, p, n-1, s-1, w-1, x-1, f-2, i-2, j-2.
Lampkin Labs., Inc., M.R. Div., t, e-1.
Land-Air Inc., i, p, s, u, b-1, g-1, q-1, r-1, v-1, w-1, d-2, g-2, l-2.
Lear, Inc., a, g, i, n, x, s-1, t-1, u-1, w-1, x-1, e-2, f-2, j-2.
Lear, Inc., Grand Rapids Div., i, n, x, w-1, x-1.
Leeds & Northrup Co., h-1, i-1, k-1, e-2.
***WALLACE O. LEONARD, INC.**, b, u, n-1, x-1, i-2.
***LEWIS ENGRG. CO., THE**, e-2.
Librascope Inc., i.
Liquidometer Corp., The, b-1, i-1, o-2, e-2.
Lundy Mfg. Corp., s-1.
MB Mfg. Co., l-2.
Magnaflux Corp., q, c-1, d-1, o-1, c-2.
Magnetic Instrument Co. Inc., b-1.
Magtrol, Inc., h-2.
Marion Instrument Div., h-1.
Jas. P. Marsh Corp., n-1, e-2, j-2.
Master Specialties Co., i, t.
Matheson Co., Inc., The, k-1, n-1.
W. L. Maxson Corp., The, u, b-1, w-1.
Menlo Research Lab., k-1, q-1.
Meters Inc., h-1, i-1.
Micrometrical Mfg. Co., t, l-2.
Midwestern Instruments, Inc., i, d-2.
Miller Dial & Nameplate Co., i, z.
Minco Products, Inc., e-2.
Mine Safety Appliances Co., l, y, j-1.
Minneapolis-Honeywell Regulator Co., Aeronautical Div., a, b, x, b-1, i-1, j-1, n-1, v-1, x-1, f-2, i-2.
Minneapolis-Honeywell Regulator Co., Davies Labs. Div., d-2.
Minneapolis-Honeywell Regulator Co., Industrial Div., o-1.
Minneapolis-Honeywell Regulator Co., Industrial Product Group, i, k, l, s, t, u, y, o-1, b-1, f-1, h-1, i-1, k-1 n-1, q-1, w-1, o-2 thru f-2, h-2, j-2, n-2, o-2, p-2.
J. J. Monaghan Co., Inc., m-2.
Moran Instrument Corp., i-1, x-1.
F. L. Moseley Co., h-1, i-1.
Motorola Inc., Military Electronics Div., d, i, w, e-1, g-1, m-1, o-1, w-1, d-2.
Mueller Brass Co., r, b-1.
NRC Equipment Corp., j-2.
George L. Nankervis Co., i, s, t, u, o-2, f-2, h-2.
National Electronics, b, t, b-1, h-1, e-2.
National Research Corp., j-2.
New England Scientific Instruments Co., t, y, b-1, f-1, n-1, b-2, d-2, e-2.
Non-Linear Systems, Inc., i, w-1.
North Atlantic Industries, Inc., i, h-1, w-1, x-1, d-2, e-2.
Northrop Corp., a, o-2, p-2.
Norwood Controls Unit Detroit Controls Div., b-1, i-1, n-1, d-2.
Nuclear Corp. of America, r-1.
Nuclear-Chicago Corp., r-1.
Ohio Semiconductors, Inc., c-1, d-1.
Ohmart Corp., The, o-2.
Optimized Devices, Inc., h, h-1.
Opto-Metric Tools, Inc., o-1.
Orbitron Co., Inc., n-2.
Oxygen Equipment & Service Co., j-1.
Pacific Scientific Co., l, c-2, e-2, l-2, o-2, p-2.
Palmer Thermometers, Inc., e-2.
Ralph M. Parsons Co., The, Electronics Div., o-1, d-2.
Patwin, Div.-Patent Button Co., i.
Penn Keystone Corp., a, n, w, r-1, w-1.
Performance Measurements Co., s, u, i-1, x-1, c-2, e-2, f-2, h-2, n-2.
Peschel Electronics, Inc., h, o-1.
Philco Corp., Government & Industrial Div., o-1, d-2, g-2.
Photobell Co., Inc., y, z, b-1, f-1, o-1, y-1.
Photocon Research Products, n-1, o-1.
Photo-Crystals, Inc., y.
Photomation, Inc., y-1.
Photovolt Corp., k-1, l-1.
Potter Aeronautical Corp., s, t, u, o-2, b-2, i-2.
Power-Tronic Systems Inc., b, s, t, u, w, x, b-1, c-1, g-1, x-1, h-2, p-2.
Precision Thermometer & Instrument Co., o-2, e-2.
Process & Instruments, j-2.
Puritan Compressed Gas Corp., Aviation Div., j-1.
Pyrometer Instrument Co., Inc., e-2.
Radar Relay, Inc., i.
Radiation Instrument Development Lab., Inc., r-1.
Rohm Instruments, Div.-American Machine & Metals, Inc., s, o-1, b-1, x-1, j-2, p-2.
Rawson Electrical Instrument Co., c-1.
Raymond Engrg. Lab., Inc., g-2.
Raytheon Mfg. Co., Government Equipment Div., i, w, g-1, m-1, w-1.
Republic Mfg. Co., n-1.
Revere Corp. of America, s, u, f-2, n-2.
Richardson Scale Co., n-2.
Rinco, Inc., h-1.
Milton Roy Co., b-1, k-1.
Royco Instruments, Inc., e-2.
Arthur C. Ruge Associates, Inc., e-2.
Ryan Aeronautical Co., i.
St. John X-Ray Lab., q-1, r-1.
Sanborn Co., k, t, c-2.
Schaevitz Engrg., x-1, f-2.
Schutte & Koerting Co., o-2.
Scientific Instrument Co., y, n-1, e-2.
Scientific-Atlanta, Inc., d, x-1.
H. H. Scott, Inc., h-1, i-1, x-1, l-2.
Seiscor Mfg. Co., x-1.
Servomechanisms, Inc., a, b, c, i, b-1, i-1, n-1, x-1, b-2, d-2, e-2, h-2, i-2, m-2, n-2, o-2.
Shallcross Mfg. Co., h-1.
Shannon Luminous Materials Co., i.
Signalite Inc., z.
Simmonds Aerocessories, Inc., u, b-1, m-2, n-2.
Simpson Electric Co., h-1, e-2.
Southwestern Industrial Electronics Co., h, o-1, k-1.
Space Corp., b-1, l-2.
Specialties, Inc., a, b, c, l-1, s-1, x-1, i-2.
Specialty Engrg. & Electronics Co., q-1, r-1, o-2, p-2.
Sperry Gyroscope Co., Marine Div., Div.-Sperry Rand Corp., i, x, g-1, m-1.
Sperry Piedmont Co. - Div.-Sperry Rand Corp., n, x, g-1, m-1.
Standard Controls, Inc., n-1.
Stanley Aviation Corp., o-1, q-1, r-1.
Sterling Precision Corp., Instrument Div., w, x.
M. C. Stewart, o-2, p-2.
Strand Engrg. Co., m-1.
P. A. Sturtevant Co., h-2.
Summers Gyroscope Co., g, i, x, s-1, t-1, u-1, w-1, x-1.
Sun Electric Corp., Aeronautical Div., t, w-1, d-2, l-2, o-2, p-2.
Systems Inc., r-1.
Systron Corp., s, t, u, b-2 thru h-2.
Tapco Group, Thompson-Ramo-Wooldridge Inc., t, b-1, x-1.
Task Corp., a, b, c.
W. A. Taylor & Co., k-1.
Technique Associates, e-2.
Telechrome Mfg. Corp., d-2.
Tele-Dynamics Inc., d-2.
Telerad Mfg. Corp., t.
Temperature Engrg. Corp., j-2.
Textron Corp., s-1.
Thermal Refractories Corp., e-2.
Thermo Electric Co., Inc., e-2.
Theta Instrument Corp., d, j, x-1.
Thomas Electronics, Inc., q.
Thwing-Albert Instrument Co., q-1, e-2.
Towaco Electronics Co., t.
Transistor Electronics Corp., i, o-1, g-2.
Trans-Sonics, Inc., b-1, n-1, l-2.
Trimount Instrument Co., b-1, o-1.
Uehling Instrument Co., n-1, j-2.
Union Switch & Signal, Div.-Westinghouse Air Brake Co., i, d-2.
United Electric Controls Co., o-1, n-1, w-1, e-2, j-2.
United Electrodynamics, Inc., d-2.
U. S. Science Corp., Div.-Topp Industries, Inc., a, c, i, k-1, t-1, u-1, x-1.
United States Time Corp., x, s-1, t-1, u-1.
Universal Dynamics Corp., l, y, f-1.
Vacuum Tube Products, Div.-Hughes Aircraft Co., j-2.
Varian Associates, c-1.
Vemaline Products Co., g-2.
Victory Engrg. Corp., b-1, y-1, d-2, e-2.
Vinson Mfg. Co. Inc., b-1, h-2.
Waldorf Electronics. Div.-F. C. Huyck & Sons, b, c, d, g, i, n, o, s, u, x, g-1, m-1, s-1, t-1, u-1, w-1, x-1, b-2, f-2, i-2, o-2, p-2.
Wallace & Tiernan Inc., b, k-1, n-1, f-2, h-2, i-2, j-2.
Warren Components, Div. El-Tronics, Inc., y, f-1.
Waste King Corp., Technical Products Div., b, c, n, x, i-2.
Waugh Engrg. Co., s, t, u.
West Instrument Corp., w-1, e-2.
Westinghouse Electric Corp., o-1, q-1, r-1, d-2, e-2.
Weston Instruments, Div.-Daystrom, Inc., t, y, z, e-1, f-1, h-1, l-1, x-1, b-2, e-2, g-2, m-2.
Westronics Inc., i, l, s, t, u, y, z, o-1, b-1, h-1 thru k-1, n-1, q-1, r-1, x-1, o-2, b-2, c-2, e-2, f-2, h-2, j-2, n-2, p-2.
Whittaker Gyro. Div.-Telecomputing Corp., g, x, t-1, u-1.
Wind Turbine Co., d.
Winzen Research Inc., d-2.
N. Wood Counter Lab., q-1, r-1.
Worner Electronic Devices, y, z, o-1, b-1, y-1.
Yellow Springs Instrument Co., The, e-2.
Z & W Mfg. Corp., c.

INDICATORS, POSITION
See POSITION INDICATORS

INDICATORS, RADIO COMPASS
See RADIO COMPASS INDICATORS

INDUCTANCE SPECIALTIES, MEASUREMENT

Dietz Design & Mfg. Co.
Dresser Industries, Inc.
Leeds & Northrup Co.
Marconi Instruments
Metronix, Inc., Sub.-Assembly Products, Inc.
New England Scientific Instruments Co.
North Hills Electric Co., Inc.
Precise Development Corp.
Sangamo Electric Co.
Southwestern Industrial Electronics Co.
H. W. Sullivan Ltd.
United Transformer Co.
Vari-L Co., Inc.
Wright Engrg. Co.

INDUCTANCES, VARIABLE

Aetna Electronics Corp.
Barker & Williamson Inc.
CGS Labs., Inc.
California Spring Co., Inc.
Cambridge Thermionic Corp.
Celco (Constantine Engrg. Labs. Co.)
Coilcraft Inc.
Computer Engrg. Associates, Inc.
Forbes & Wagner, Inc.
Freed Transformer Co. Inc.
Fugle-Miller Labs. Inc.
JFD Electronics Corp.
E. F. Johnson Co.
Motorola Inc., Military Electronics Div.
NYT Electronics, Inc.
National Coil Co.
North Hills Electric Co., Inc.
Stanwyck Winding Co., Inc.
H. W. Sullivan Ltd.
Superex Electronics Corp.
Telectro Industries Corp.
United Transformer Co.
Universal Toroid Coil Winding, Inc.
Vanguard Electronics Co.
Vari-L Co., Inc.

INDUCTION HEATING EQUIPMENT

Astravac Corp.
Barker & Williamson Inc.
Erdco Engrg. Corp.
General Electric Co., Apparatus Sales Div.
General Electrodynamics Corp.
C. I. Hayes, Inc.
High Vacuum Equipment Corp.
Induction Heating Corp.
Instruments Div.-Philips Electronics, Inc.
Lindberg Engrg. Co.
Marion Instrument Div.
***MOTOR GENERATOR CORP.**
Pacific Scientific Co.
Papesch & Kolstad, Inc.
Reeve Electronics, Inc.
Sherman Industrial Electronics, Div.-Engrg. Design Inc.
Telectro Industries Corp.
Tocco Div., The Ohio Crankshaft Co.
United Aircraft Products, Inc.
Young Brothers Co.

INDUCTION HEATING EQUIPMENT, 400 CYCLE

***MOTOR GENERATOR CORP.**

INDUCTORS

Aerovox Corp.
Aladdin Electronics, Div.-Aladdin Industries Inc.
Amplifier Corp. of America
Audio Development Co.
Avtron Mfg., Inc.
Barker & Williamson Inc.
Burnell & Co., Inc.
CGS Labs., Inc.
Cambridge Thermionic Corp.
Carruthers & Fernandez, Inc.
Celco (Constantine Engrg. Labs. Co.)
Coils-Electronics
Computer Engrg. Associates, Inc.
Corning Glass Works
D. & R. Ltd.
Dietz Design & Mfg. Co.
Dresser Industries, Inc.
Electro Engrg. Works
Ferranti Electric Inc.
Forbes & Wagner, Inc.
Freed Transformer Co. Inc.
Fugle-Miller Labs. Inc.
General Electric Co., Apparatus Sales Div.
Genistron, Inc.
Goslin Electric & Mfg. Co.
E. F. Johnson Co.
Keystone Products Co.
Leeds & Northrup Co.
Minitron Corp.
NYT Electronics, Inc.
Networks Electronic Corp.
North Hills Electric Co., Inc.
Redmon Electronics Corp.

Signal Transformer Co.
Stanwyck Winding Co., Inc.
H. W. Sullivan Ltd.
Superex Electronics Corp.
Telectro Industries Corp.
Tocco Div., The Ohio Crankshaft Co.
Transonic, Inc.
Tri-Dex Co.
United Transformer Co.
Universal Toroid Coil Winding, Inc.
Vanguard Electronics Co.
Varo Mfg. Co., Inc.
Westbury Electronics Inc.
Wheeler Electronic Corp., Sub.-Sperry Rand Corp.

INDUCTORS, COILS

A. P. W. Co.
Aetna Electronics Corp.
Aladdin Electronics, Div.-Aladdin Industries Inc.
Audio Development Co.
Barker & Williamson Inc.
Burnell & Co., Inc.
CGS Labs., Inc.
Cambridge Thermionic Corp.
Carruthers & Fernandez, Inc.
Celco (Constantine Engrg. Labs. Co.)
Central Transformer Co.
Coilcraft Inc.
Coils-Electronics
Corning Glass Works
De Witt Development Co.
Dietz Design & Mfg. Co.
Dresser Industries, Inc.
Ferranti Electric Inc.
Forbes & Wagner, Inc.
Freed Transformer Co. Inc.
Fugle-Miller Labs. Inc.
General Coil Products Corp.
General Electric Co., Apparatus Sales Div.
Genistron, Inc.
Goslin Electric & Mfg. Co.
JFD Electronics Corp.
E. F. Johnson Co.
Johnson Electronics Inc.
Keystone Products Co.
Langevin Div., The W. L. Maxson Corp.
Minitran Corp.
Motorola Inc., Military Electronics Div.
NYT Electronics, Inc.
National Coil Co.
National Electronics
National Pneumatic Co., Inc., Holtzer-Cabot Divs.
Networks Electronic Corp.
New York Coil Co.
North Hills Electric Co., Inc.
Philco Corp., Government & Industrial Div.
Railway Communications Inc.
Redman Electronics Corp.
Sangamo Electric Co.
Signal Transformer Co.
Stanwyck Winding Co., Inc.
H. W. Sullivan Ltd.
Superex Electronics Corp.
Telectro Industries Corp.
Tocco Div., The Ohio Crankshaft Co.
Torwico Electronics, Inc.
Transonic, Inc.
Tri-Dex Co.
United Transformer Co.
Universal Toroid Coil Winding, Inc.
Vanguard Electronics Co.
Vari-L Co., Inc.
Westbury Electronics Inc.
Wheeler Electronic Corp., Sub.-Sperry Rand Corp.

INDUSTRIAL SLIDES
See SLIDES, INDUSTRIAL

INFRARED
a. Detection Systems
b. Image Converters
c. Systems
d. Systems, Guidance

ACF Industries Inc., a thru d.
Aerojet-General Corp., a thru d.
***AIRESEARCH MFG. CO., DIV.-THE GARRETT CORP., c.**
American Optical Co., Instrument Div., c, d.
Atlantic Instrument Corp., Sub.-American Electronics, Inc., d.
***AVCO MFG. CORP., CROSLEY DIV.**
Axler Associates Inc., a, c.
Baird-Atomic, Inc., a, c, d.
***BAUSCH & LOMB OPTICAL CO., a, c, d.**
Bell Aircraft Corp., Niagara Frontier Div., d.
Bulow Electric Co., a, c.
Chicago Aerial Industries, Inc., a, d.
Cooper Development Corp., Sub.-Marquardt Aircraft Co., c.
Curtiss-Wright Corp., Research Div.
Davidson Mfg., Co., Inc.
Eastman Kodak Co., a, c, d.
Thomas A. Edison.Ind. Instrument Div.-Mc Graw-Edison Co., a, c.
Edmund Scientific Co., a, b.
Electronic Communications, Inc., a, c, d.
Emerson Electric Mfg. Co., The, Electronics & Avionics Div., c.
Engelhard Industries, Inc.
Ford Instrument Co., Div.-Sperry Rand Corp., a.
General Electric Co., Missile & Space Vehicle Dept.
General Electrodynamics Corp., b.
General Precision Lab. Inc., d.
Gilfillan Bros. Inc., a thru d.
Guided Missile Div.-De Havilland Aircraft of Canada, Ltd., a, c, d.
Haller, Raymond & Brown Inc. Div., Singer Mfg. Co., a thru d.
Hamilton Standard, Div.-United Aircraft Corp., a.
Hayward Scientific Glass Corp., d.
Hughes Aircraft Co., a, c, d.
Walter J. Hyatt Co., The, a, c, d.
Hycon Mfg. Co., a, c.
ITT Federal Div., International Telephone & Telegraph Corp., d.
ITT Labs., a thru d.
ITT Labs.-Ft. Wayne, a thru d.
Infrared Industries Inc., a, c, d.
***KEARFOTT CO., INC., a, d**
Lear, Inc., a thru d.
Librascope Inc., a, c, d.
Lockheed Aircraft Corp., Missiles & Space Div., a, c.
Mergenthaler Linotype Co., a, c.
Minneapolis-Honeywell Regulator Co., Aeronautical Div., a, c, d.
Minneapolis-Honeywell Regulator Co., Ordnance Div., a, c.
Monogram Precision Industries, c.
Motorola Inc., Military Electronics Div., a thru d.
Northrop Corp., a thru d.
Northrop Corp., The, Nortronics Div., a thru d.
Ohio Semiconductors, Inc.
Otis Elevator Co., Electronic Div., c.
Patterson, Moos Div. - Universal Winding Co., Inc., a, c, d.
Perkin-Elmer Corp., a, c, d.
Philco Corp., Government & Industrial Div., a, c, d.
Photobell Co., Inc., a.
Pioneer Industries Div., Almar-York Co. Inc., a.
Q. O. S. Corp., a, b.
Radiation, Inc., a thru d.
Ramo-Wooldridge Div., Thompson Ramo Wooldridge of Calif.
Raytheon Mfg. Co., Government Equipment Div., a, c, d.
Republic Aviation Corp., a, c, d.
Santa Barbara Research Center, a, c, d.
Servo Corp. of America, a, c, d.
Singer Mfg. Co., The Military Products Div., a thru d.
Skiatron Electronics & Television Corp., a, d.
H. W. Sullivan Ltd.
Systems Inc., a, c, d.
Thiokol Chemical Corp., a.
Trionics Corp., a.
U. S. Industries, Inc., a, d.
Waldorf Electronics. Div.-F. C. Huyck & Sons, c, d.
Webcor, Inc., Government Div., a thru d.
Westinghouse Electric Corp., a thru d.
Worner Electronic Devices
Zenith Optical Laboratory, c.

INFRA-RED LAMPS
See LAMPS, INFRA-RED

INITIATORS
a. Destructors
b. Primers
c. Squibs

***McCORMICK SELPH ASSOCIATES, a, b, c.**

INJECTION SYSTEMS, FUEL

American Bosch Arma Corp.
Auburn Spark Plug Co., Inc.
B. H. Aircraft Co., Inc.
***BENDIX AVIATION CORP., HAMILTON DIV.**
***BENDIX PRODUCTS DIV., BENDIX AVIATION CORP.**
California Aircraft Products
Chandler Evans Corp.
Curtiss-Wright Corp., Santa Barbara Div.
Curtiss-Wright Corp., Wright Aeronautical Div.
Finn Aeronautical Div., T. R. Finn & Co., Inc.
Korda Industries
Marquardt Aircraft Co.
Reaction Motors Div., Thiokol Chem. Corp.
Simmonds Aerocessories, Inc.
United Aircraft Products, Inc.
Veet Industries

INJECTION SYSTEMS, WATER

ACF Industries Inc.
***AIRESEARCH MFG. CO., DIV.-THE GARRETT CORP.**
Bendix Utica Div., Bendix Aviation Corp.
Chandler Evans Corp.
Curtiss-Wright Corp., Santa Barbara Div.
Curtiss-Wright Corp., Wright Aeronautical Div.
Marquardt Aircraft Co.
United Aircraft Products, Inc.

INSPECTION EQUIPMENT
a. Fluorescent
b. Lighting
c. Magnetic
d. Optical
e. X-Ray

Allen Tool Corp.
American Cystoscope Makers, Inc., d.
American Optical Co., Instrument Div., d.
American Research & Mfg. Corp., d.
Bar-Ray Products, Inc., e.
***BAUSCH & LOMB OPTICAL CO., d**
Bearing Inspection, Inc.
Bendix Aviation Corp., Friez Instrument Div., e.
Blowers Inc., a, b, d.
Bracke-Seib X-Ray Co., Inc., e.
Branson Instruments, Inc.
Buhl Optical Co., d.
Collins Microflat Co.
Curtiss-Wright Corp.-Princeton Div., e.
Davidson Mfg., Co., Inc., d.
Day-Ray Products, Inc., b.
Device Development Corp., c.
Eastman Kodak Co., d.
Edmund Scientific Co., d.
Engrg. Developments, Inc., d.
***ENGIS EQUIPMENT CO., d.**
J. W. Fecker, Inc., d.
Gardner Laboratory, Inc., d.
General Electric Co., Apparatus Sales Div., e.
General Electric Co., X-Ray Dept., a, e.
Gordon Enterprises, d.
Hayward Scientific Glass Corp., d.
High Voltage Engrg., e.
Ideal Industries, Inc., a.
Instruments Div.-Philips Electronics, Inc., e.
Jones & Lamson Machine Co., d.
Kollmorgen Optical Corp., d.
Land-Air Inc., d, e.
Magnaflux Corp., a, c.
Menlo Research Lab., a.
Newbrook Machine Corp., d, e.
O & S Research, Inc., d.
Ohio Semiconductors, Inc., c.
Opto-Metric Tools, Inc., d.
Perkin-Elmer Corp., d.
Philco Corp., Government & Industrial Div., d, e.
Picker X-Ray Corp., c, e.
Rototest Labs., Inc., e.
St. John X-Ray Lab., e.
Shannon Luminous Materials Co., a thru d.
Sheffield Corp., The, Sub.-Bendix Aviation Corp., e.
Smith-Morris Corp., a, b, e.
Soderberg Mfg. Co., Inc., b.
Sperry Products, Inc., e.
Strat-O-Seal Mfg. Co., a.
Tinsley Labs., Inc., d.
Triplett & Barton, Inc., e.
Turco Products, Inc.
***ULTRA-VIOLET PRODUCTS, INC., a.**
Van Keuren Co., d.
Veet Industries
Wasley Products, Inc., b.
Weston Instruments, Div.-Daystrom, Inc., d, e.
Wollensak Optical Co., d.
Zoomer Inc., d.

INSPECTION LAMPS
See LAMPS, INSPECTION

INSPECTION MIRRORS
See MIRRORS, INSPECTION

INSTALLATION TOOLS FOR BLIND RIVETS & LOCKBOLTS
***TOWNSEND CO., CHERRY RIVET DIV.**

INSTRUCTION PLATES
See PLATES, INSTRUCTION

INSTRUMENT DIALS
See DIALS, INSTRUMENT

INSTRUMENT LANDING SYSTEMS
See LANDING SYSTEMS, INSTRUMENT

INSTRUMENT PANEL VIBRATORS
See VIBRATORS, INSTRUMENT PANEL

INSTRUMENTS, ELECTRICAL MEASURING
a. Ammeters
b. Audiometers
c. Bridges
d. Calibrators
e. Circuit Linearity
f. Comparators
g. Comparators Voltage
h. Galvanometers
i. Magnetometers
j. Megohmmeters
k. Microammeters
l. Microfaradmeters
m. Micro-Microammeters
n. Milliammeters
o. Millivoltmeters
p. Ohmmeters
q. Panel
r. Ratiometers
s. Recorders
t. Standards
u. Tracers, Signal
v. Ultrasonic
w. Voltmeters
x. Volt-Ohm-Milliammeters
y. Wattmeters

Acton Labs. Inc., c, s, t, w.
Aeroscience, Inc.
Airborne Instruments Lab., Div.-Cutler-Hammer, Inc., c, d.
Airtronics International Corp., x.
Allegany Instrument Co., Inc., d, e, r.
American Aeroparts, a, w.
American Electronics, Inc., Taller & Cooper Div., s.
American Machine & Foundry Co., Government Products Group, w.
American Machine & Foundry Co., Greenwich
American Measurement & Control, Inc., d.
Amplifier Corp. of America, g.
R. B. Annis Co., i.
Antlab Inc., s.
Anton Electronic Labs., Inc., m, n, o, q, w, x.
Applied Physics Corp., m.
Arenberg Ultrasonic Lab., Inc., v.
Assembly Products, Inc., a, k, n thru q, w, y.
Associated Research, Inc., h, j, k, p.
Atlantic Research Corp., d, v.
Avien, Inc., f, g.
Avo Ltd., a, p, w, x.
B & F Instruments, Inc., c, d.
B & H Instrument Co., Inc., h, a.
B & K Instruments, Inc., d, f, j, k, m.
Ballantine Labs., Inc., d, o, w.
Beckman Instruments, Inc., Berkeley Div., p, w.
Beckman-Scientific & Process Instruments Div., m.
Beede Electrical Instrument Co. Inc., a, h, k, n, o, q, w.
Benson-Lehner Corp., s.
James G. Biddle Co., h, j, p.
A. Biederman, Inc., t.
Bliss Electronic Corp., c, f, g.
Branson Instruments, Inc., v.
Bristol Co., The, a, c, d, h, j, k, m thru q, s, w, y.
Brush Instruments, Div.-Clevite Corp., a, e, h, j, n, q, s, t, x.
Burr-Brown Research Corp., o, v, w.
Burton-Rogers Co., Sales Div.-Hoyt Electrical Instruments, a, k, n, o, p, v, w.
California Technical Industries, Div.-Textron Inc., e, f, g.
Centronix Inc., f, s.
Century Electronics & Instruments, Inc., h, s.
Chesapeake Instrument Corp., c.
Cleveland Instrument Co., f.
Collins Engrg. Corp., a, w.
Consolidated Electrodynamics Corp., h, s, w.
Cubic Corp., a, p, r, w, y.
Curtiss-Wright Corp., Electronics Div., c, j, k, m, n, o, s.
Curtiss-Wright Corp., Research Div., v.
Datron Electronics, Div.-Mid-Continent Mfg., Inc., r.
Daven Co., The, b, w, x.
Davenport Mfg. Co., d, g, j, t.
Dejur-Amsco Corp., Electronic Sales Div., a, k, n, o, q, w.
Device Development Corp., i.
J. W. Dice Co., f, j, p.
Donner Scientific Co., c, f, g.
Dresser Industries, Inc., j, n, o, p, s, w, x.
Dytronics Co., f, t.
Thomas A. Edison Ind. Instrument Div.-Mc Graw-Edison Co., r.
Elcor, Inc., k, m.
Electric Auto-Lite Co., The, a.
Electric Design & Mfg. Co., a, k, n, o, q, w.
Electro Instruments, Inc., c, d, f, g, j thru p, r, s, w.
Electro-Measurements Inc., c.
Electronic Applications, Inc., j, p.
Electronic Instrument Co., Inc. (EICO), u, w, x.
Electronics Div., Van Norman Industries Inc., k, n, o, q, w.
Electro-Tech Equipment Co., a, c, h, j, k, n thru q, s, t, w, x, y.
Elgin Micronics Div.-Elgin National Watch Co., s.
Empire Products Sales Corp., u.
Engelhard Industries, Inc., w.
Engrg. Associates, c, s, t.
Epic, Inc., a, c, h, j, k, m thru p, s, w, x, y.
Etched Products Corp., q.
FXR, Inc., c, r.
Federal Products Corp., f.
Fischer & Porter Co., q, s.
Fisher Research Lab., Inc., o, w.
Fisher Scientific Co., h.
Flow Corp., a, w.
John Fluke Mfg. Co., Inc., d, g, o, w, y.
Freed Transformer Co. Inc., c, f, j.
Furane Plastics, Inc., f.
General Electric Co., Apparatus Sales Div., a, h, i, k, n, o, q, s, w, y.
G. M. Giannini & Co., Inc., r.
Gilmore Industries, Inc., s.
Gray Instrument Co.
Gulton Industries, Inc., s.
Hamilton Watch Co.-Industrial Div., h.
Harco Labs., Inc., y.
Helipot Div.-Beckman Instruments Inc., a, q, w.
Hewlett-Packard Co., k, m, n, o, r, t, w, x, y.
Hogan Laboratories, Inc., s.
Hoyt Electrical Instrument Works, Burton Rogers Co., a, k, n, o, q, w.
Industrial Instruments Inc., a, c, j, p.
Industrial Television Inc., x.
Industrial Test Equipment Co., c, f, t.
Inertia Switch, Inc., s.
Instrument Labs., x.
International Instruments Inc., a, k, n, o, q, w, x.
Jennings Radio Mfg. Corp., w.
Jones & Lamson Machine Co., f.
Julie Research Labs., Inc., c, d, g, m, o, q, s.
Kahn & Co., Inc., b, c.
Kauke & Co., a.
Kay Electric Co., w.
Keithley Instruments, Inc., j, k, m, o, p, x.
Kin Tel Div.-Cohu Electronics, Inc., a, h, k, m thru p, r, v, w.
Knopp Inc.
Land-Air Inc., d, s.
Lavoie Laboratories Inc., f, g.
Leach Corp., s.
Leeds & Northrup Co., c, g, j, k, m, p, s, t.
Leitch-Huard Corp., x.
Mac Leod & Hanopol, Inc., j.
Magnaflux Corp., i, v.
Magnetic Instrument Co. Inc., r.
Marconi Instruments, c, l, p, w, x.
Marion Instrument Div., a, k, n, o, q, w.
Massa Div.-Cohu Electronics, Inc., h, v.
Menlo Research Lab., f.
Meters Inc., a, h, j, k, n thru q, w, x.
Metronix, Inc., Sub.-Assembly Products, Inc., c, d, f, o, w.
Micrometrical Mfg. Co., s.
Midwestern Instruments, Inc., c, h.
Milgo Electronic Corp., s.
Millitest Corp., c.
Minneapolis-Honeywell Regulator Co., Boston Div., h, i.
Minneapolis-Honeywell Regulator Co., Industrial Div., s.
Minneapolis-Honeywell Regulator Co., Industrial Product Group, a, c thru h, j, k, m thru p, s, t, w.
F. L. Moseley Co., a, s.
Motorola Inc., Military Electronics Div., d.
National Electronics, a, h, j, k, n thru s, w, x, y.
National Instrument Laboratories, Inc., t.
National Pneumatic Co., Inc., Holtzer-Cabot Divs., j.
National Spectrographic Labs., Inc., s.
New England Etching & Plating Co., Inc., q.
New England Scientific Instruments Co., a, c, h, j, k, l, n thru q, s, t, w, y.
Non-Linear Systems, Inc., f, g, p, r, w, x.
North Atlantic Industries, Inc., r, w.
Paul Nurches Co., a, n, q, w.
Offner Electronics Inc., h, s.
Ohio Semiconductors, Inc., i, y.
Optimized Devices, Inc., d, f, g, p.
Pace Electrical Instruments Co., Inc., a, h, k, n, o, q, w.
Paco Electronics Co., Inc., u, x.
Phaostron Instrument & Electronic Co., a, n thru q, w, x.
Philco Corp., Government & Industrial Div.
Photron Instrument Co., h, s.
Physics Research Laboratories, Inc., a, c, d, f, h, j, k, n, p, q, t, w, x, y.
Pioneer Industries Div., Almar-York Co. Inc., v.
Plasteck, Inc., q.
Power-Tronic Systems Inc., a, c, f, s.
Precise Development Corp., a thru d, f, h, j, k, n thru q, w, x, y.
Precision Apparatus Co., Inc., j, x.
Q. V. S. Inc., a, h, k, n thru q, w.
Quan-Tech Labs., k.
Radiation, Inc., a, g, s.
Rawson Electrical Instrument Co., a, d, k, n, o, t, w, x, y.
Rese Engrg., Inc., f, g.
Research Appliance Co., s.
***RHEEM MFG. CO., DEFENSE & TECHNICAL PRODUCTS DIV.**, m, p, x.
Rinco, Inc., c.
Rochester Mfg. Co. Inc., a.
Royal Industries, Inc., s.
Sanborn Co., n, s, w, y.
Schaevitz Engrg., s.
Sel-Rex Corp.
Servo Corp. of America, r.
Shallcross Mfg. Co., c, h, j, k, n, o.
Simpson Electric Co., a, d, h, k, n thru q, t, w, x, y.
Slaughter Co., Inc., c, e, f, g, j, p.
Solartron Inc., w, y.
Southwestern Industrial Electronics Co., b thru q, s, w.
H. W. Sullivan Ltd., c, h, k, m, n, o, t.
Sun Electric Corp., Aeronautical Div., a, b, h, k, n, o, q, w, y.
Systron Corp., f, g, r, s, w.
Technical Apparatus Builders, a, d, g, k, n, o, w.
Technology Instrument Corp., s, w, x.
Telectro Industries Corp., s, t.
Telerad Mfg. Corp., d.
Thermo Electric Co., Inc., o, s.
Theta Instrument Corp., c.
Thiokol Chemical Corp., c.
Thwing-Albert Instrument Co., s.
Trio Laboratories, Inc., g, p, w, x.
Triplett Electrical Instrument Co., a, j, k, n thru q, w, x, y.
United Electric Controls Co., q.
Varian Associates, s.
Wacline, Inc., a, j, k, m thru q, w, x.
Waltham Electronics Corp., x.
Weinschel Engrg., d.
West Instrument Corp., n, o, s.
Westinghouse Electric Corp., a, k, n, o, p, w, x, y.
Weston Instruments, Div.-Daystrom, Inc., a, d, g, h, j, k, n thru q, s, t, w, x, y.
Westronics Inc., s.
Wintronics, d, f.
Wright Engrg. Co., j.
Wye Industries, v.

INSTRUMENTS, ELECTRICAL MEASURING METERS

a. **Electronic Capacitance**
b. **Field Strength**
c. **FM Deviation**
d. **Frequency**
e. **Impedance**
f. **Modulation**
g. **Null**
h. **Output**
i. **Panel**
j. **Phase Angle**
k. **Power Factor**
l. **Q**
m. **RF Power**
n. **Standing Wave Ratio**
o. **Wave**
p. **X-Ray Intensity**

Acton Labs. Inc., a, e, j, k.
Adler Electronics, Inc., c, d, e.
Aero Instrument Co., d.
Air Logistics Corp., j.
Airborne Instruments Lab., Div.-Cutler-Hammer, Inc., m.
Aircom Inc. of New Jersey, n.
Airpax Electronics Inc. Seminole Div., d.
American Machine & Foundry Co., Government Products Group, d, k.
American Machine & Foundry Co., Greenwich
Anton Electronic Labs., Inc., i, p.
Assembly Products, Inc., j.
Avtron Mfg., Inc., c, d, f.
B & H Instrument Co., Inc., d.
Ballatine Labs., Inc., a.
Barker & Williamson Inc., m, n.
Beckman Instruments, Inc., Berkeley Div., d, j.
Bergen Labs., Inc., g, j.
Beva Lab., Inc., p.
James G. Biddle Co., d.
A. Biederman, Inc.
Blonder-Tongue Labs., Inc., b.
Boonton Radio Corp., l.
Briggs Associates, Inc., a.
Budelman Electronics Corp., c, d.
Burr-Brown Research Corp., g.
California Technical Industries, Div.-Textron Inc., m.
Centronix Inc., b, m.
Chemold Co., i.
Chesapeake Instrument Corp., a.
Clippard Instrument Lab., Inc., a.
Colorado Research Corp., j.
Davenport Mfg. Co.
Daystrom Pacific Div.-Daystrom, Inc., g.
Dejur-Amsco Corp., Electronic Sales Div., h, i.
Divco-Wayne Electronics, Div.-Divco-Wayne Corp., d.
Donner Scientific Co., g.
Douglas Microwave Co., Inc., d, n, a.
Dytronics Co., j.
Eastern Specialty Co., The, j.
Electro Instruments, Inc., a.
Electro-Measurements Inc., a, g.
Electronic Applications, Inc., c.
Electronic Tube Corp., j.
Electro-Tech Equipment Co., k.
Empire Products Sales Corp., b, f, m.
Engrg. Associates, b, d.
Epic, Inc., d, e, j.
Etched Products Corp., i.
FXR, Inc., d, e, f, m, n, o.
Federal Mfg. & Engrg. Corp., d.
Fischer & Porter Co., h, i.
Freed Transformer Co. Inc., l.
General Communication Co., d, m, a.
General Electric Co., Apparatus Sales Div., d, i, j, m, p.
General Electric Co., X-Ray Dept., p.
Hagan Chemicals & Controls, Inc., g.
Hamilton Watch Co.-Industrial Div., j.
Helipot Div.-Beckman Instruments Inc., d, l.
Hewlett-Packard Co., c, d, e, g, j, m, n, a.
Hoyt Electrical Instrument Works, Burton Rogers Co., i.
Industrial Instruments Inc., a.
Industrial Television Inc., b.
Industrial Test Equipment Co., g, j, k, l.
International Instruments Inc., i.
E. F. Johnson Co., n.
Kahn & Co., Inc., d.
Kay Electric Co., d, l, a.
Kin Tel Div.-Cohu Electronics, Inc., g.
Knopp Inc.
Lampkin Labs., Inc., M. R. Div., c, d, f.
Land-Air Inc., d, j, p.
Leeds & Northrup Co., g.
Liquidometer Corp., The, a.
***LYCOMING DIV., AVCO MFG. CORP.**, d.
Manson Labs., Inc., d.
Marconi Instruments, a, c, d, l, m.
Marion Instrument Div., g, i.
Measurements Div., Mc Graw Edison Co., b, d.

Meridian Metalcraft, Inc., n.
Meters Inc., g, h, i.
Metronix, Inc., Sub.-Assembly Products, Inc., a.
Micrometrical Mfg. Co., d.
Millitest Corp., g.
Minneapolis-Honeywell Regulator Co., Boston Div., g.
Minneapolis-Honeywell Regulator Co., Davies Labs. Div., d.
Minneapolis-Honeywell Regulator Co., Industrial Div., d, g.
Minneapolis-Honeywell Regulator Co., Industrial Product Group, a, b, d, e, g thru k, p.
Miratel, Inc., c, m.
Motorola Inc., Military Electronics Div., b, c, d, f, h, i, m.
Narda Microwave Corp., The, a.
National Electronics, d, g, i, k, m.
New England Etching & Plating Co., Inc., i.
New England Scientific Instruments Co., d, i, j.
North Atlantic Industries, Inc., g, j.
Ohio Semiconductors, Inc., b.
Pace Electrical Instruments Co., Inc., i.
Paco Electronics Co., Inc., a.
Philco Corp., Government & Industrial Div., p.
Physics Research Laboratories, Inc., g, i, k.
Picker X-Ray Corp., p.
Pioneer Tool & Engrg. Co., a, b, d thru j.
Polarad Electronics Corp., b, m, n.
Polytechnic Research & Development Co., Inc., m.
Precise Development Corp., a, e, f.
Q. V. S. Inc., i.
Radar Design Corp., a.
Radiation, Inc., b, d.
Renwell Corp., i.
Rixon Electronics Inc., n.
Royal Industries, Inc., a, d, e, f, h.
Schaevitz Engrg., b.
Scientific-Atlanta, Inc., b.
Shallcross Mfg. Co., g.
Simpson Electric Co., b, i, m.
Solartron Inc., d, g, j.
Southwestern Industrial Electronics Co., a.
Special Instruments Div., British Industries Corp., n.
Sperry Microwave Electronics Co., Div.-Sperry Rand Corp., n.
Stoddart Aircraft Radio Co., Inc., b.
Sun Dial Corp., i.
Sun Electric Corp., Aeronautical Div., g, i.
Systems Inc., c, d, f.
Systron Corp., d, j.
Technology Instrument Corp., e, j.
Telechrome Mfg. Corp., j.
Telectro Industries Corp., a, b.
Telerad Mfg. Corp., d.
Teletronics Lab. Inc., d.
Theta Instrument Corp., j.
Trio Laboratories, Inc., g, j.
Triplett Electrical Instrument Co., h, i.
Varo Mfg. Co., Inc., d.
Wacline, Inc., d, g, h, i, m.
Waltham Electronics Corp., c, d, f, n.
Waveline, Inc., m, n, o.
Weinschel Engrg., g, m.
Westinghouse Electric Corp., k, p.
Weston Hydraulics Ltd.-Sub., Borg-Warner Corp., j.
Weston Instruments, Div.-Daystrom, Inc., d, h, j, k, m.
Westronics Inc., d.
Wintronics, j.
Wright Engrg. Co., a thru e, m.

INSTRUMENTS, GRAPHIC RECORDING

Allegany Instrument Co., Inc.
Applied Science Corp. of Princeton
B & F Instruments, Inc.
B & K Instruments, Inc.
Benson-Lehner Corp.
Bristol Co., The
Brush Instruments, Div.-Clevite Corp.
Century Electronics & Instruments, Inc.
Consolidated Electrodynamics Corp.
Edgerton, Germeshausen & Grier, Inc.
Electro Instruments, Inc.
Electro-Tech Equipment Co.
Engrg. Associates
Epic, Inc.
Fischer & Porter Co.
General Electric Co., Apparatus Sales Div.
Graflex Inc.
Hallicrafters
Hogan Laboratories, Inc.
Impact-O-Graph Corp., The
Instruments Corp., The
Kay Electric Co.
Leeds & Northrup Co.
Mason-Neilan
Massa Div.-Cohu Electronics, Inc.
Mast Development Co., Inc.
Merz Engrg., Inc.
Micrometrical Mfg. Co.
Midwestern Instruments, Inc.
Minneapolis-Honeywell Regulator Co., Industrial Div.
Minneapolis-Honeywell Regulator Co., Industrial Product Group
F. L. Moseley Co.
Motorola Inc., Military Electronics Div.
National Electronics
New England Scientific Instruments Co.
Offner Electronics Inc.
Perkin-Elmer Corp.
Photron Instrument Co.
Power-Tronic Systems Inc.
Radiation, Inc.
Sanborn Co.
Scientific Instrument Co.
Scientific-Atlanta, Inc.
Seiscor Mfg. Co.
Sperry Gyroscope Co., Marine Div., Div.-Sperry Rand Corp.
Sperry Piedmont Co. - Div.-Sperry Rand Corp.
Sun Electric Corp., Aeronautical Div.
Technitrol Engrg. Co.
Technology Instrument Corp.
Traid Corp.
Varian Associates
Waldorf Electronics. Div.-F. C. Huyck & Sons
Weksler Instruments Corp.
West Instrument Corp.
Westinghouse Electric Corp.
Weston Instruments, Div.-Daystrom, Inc.
Westronics Inc.
Zophar Mills Inc.

INSTRUMENTS, METEOROLOGICAL
See METEOROLOGICAL INSTRUMENTS

INSTRUMENTS, PRESSURE
See PRESSURE INSTRUMENTS

INSULATING COMPOUNDS

Acme Wire Co.
Aries Laboratories, Inc.
Carl H. Biggs Co.
Borden Chemical Co.
George C. Borthig Co., Inc.
Crompton & Knowles Corp.
Dayton Rubber Co., The
Dennis Chemical Co.
***DOW CORNING CORP.**
E. I. Du Pont De Nemours & Co. Inc.
Electro Tec Corp.
Gladding, McBean & Co.
Houghton Laboratories, Inc.
Joclin Mfg. Co.
Johns-Manville
Minnesota Mining & Mfg. Co.
National Engrg. Products, Inc.
Permacel
Pilgrim Products Inc.
Polymer Corp., The
Products Research Co.
Saureisen Cements Co.
Topper Mfg. Co., Inc.
United States Plywood Corp.
Westinghouse Electric Corp.

INSULATION ENAMEL
See ENAMEL INSULATION

INSULATION PAPER
See PAPER, INSULATION

INSULATION PARTS

a. Bead
b. Ceramic
c. Insulating Sleeves
d. Rods
e. Sheets
f. Silicone Rubber
g. Stampings & Punchings

AMP Inc., c.
Accurate Electronics Corp., Dept. D, g.
Aero Gasket Corp., e, f, g.
Aerolite Electronics Corp., g.
Allied Plastics Supply Corp., c thru g.
Amaton Electronic Hardware Co. Inc., c, g.
American Lava Corp., b.
Atmo Seal Co., a.
Auburn Mfg. Co., The, c thru g.
Bacon Industries, Inc., f.
W. L. Barrett Co., The, g.
Bergen Carbide Co., b, g.
Birma Mfg. Co. Inc., b, e, g.
Birnbach Radio Co., Inc., c, f.
Bonny Mfg. Corp., c, d.
Borden Chemical Co., The, Div.-The Borden Co., Resinite Dept., c, d, e.
Bristol Co., The, a, b.
Calfibe Co., Inc., c.
Carborundum Co., Latrobe Plant, Refractories Div., a thru d.
Carborundum Co., Refractories Div., b.
Centralab, Div.-Globe-Union, a thru d.
Chemplast, Inc., c, d, e, g.
Colonial Rubber Co., e, f, g.
Columbia Products Co., d.
Comco Plastics Inc., g.
Connecticut Hard Rubber Co., The, f.
Continental Diamond Fibre Corp., c, f.
Continental Rubber Works, f.
Cooper Development Corp., Sub.-Marquardt Aircraft Co., b.
Cornell Deep Drawing Co., Div.-Lanes Industries Corp., g.
Corning Glass Works, b.
Crane Packing Co., a, c, d, e.
Delta Chemical Works, Inc., b, f.
Diamonite Products Mfg. Co., b.
Dielectric Materials Co., c, f.
Dixon Corp., d, e.
Dresser Mfg. Div., Dresser Industries, Inc., c.
Du-Co Ceramics Co., a thru d.
E. I. Du Pont De Nemours & Co., Inc., e, f.
Duramic Products Inc., b.
Electric Auto-Lite Co., The, b, g.
Electrical Insulation Co., Inc., d, e, g.
Electrical Refractories Co., The, b, c.
Electronic Mechanics, Inc., b thru e.
Emerson Plastics Corp., a, c, d, e, g.
Enfab Inc., g.
Engelhard Industries, Inc., b.
Erie Resistor Corp., b.
Flexrock Co., d, e, g.
Formica Corp., d, e.
Franklin Fibre-Lamitex Corp., c, d, e, g.
General Electric Co., Insulator Dept., b.
General Gasket Inc., e, f, g.
General Plastics Corp. of New Jersey, a.
Gilman Brothers Co., The, a.
Gladding, McBean & Co., a thru e.
Goodyear Tire & Rubber Co., The, Aviation Products Div., f.
Goshen Rubber Co., Inc., f.
Hampden Mfg. Co., Inc., g.
Haveg Industries, Inc., b thru f.
Hays Mfg. Co., e, g.
Hitemp Wires Inc., c.
Homalite Corp., The, c, d.
Houghton Laboratories, Inc., d, e.
Isolantite Mfg. Corp., a thru d.
Jessall Plastics, c, d.
Jodee Plastics Co., d, g.
Johns-Manville, b thru f.
Johns-Manville Sales Corp., b thru e.
Keystone Electronics Corp., g.
Kip Electronics Corp., a thru d, g.
Kling Metal Spinning & Stamping Co., g.
Lamtex Industries, Inc., c.
Lone Star Plastics Co. Inc., f.
Thomas J. Long, Inc., d, e, g.
Louthan Mfg. Co., The, Div.-Ferro Corp., b.
Mansfield Fabricators Inc., g.
Maryland Lava Co., a thru e.
J. E. Menaugh Co., c.
Metallizing Co. of Los Angeles Inc., b.
Mica Fabricating Co., b thru e, g.
Mica Insulator Div.-Minnesota Mining & Mfg., Co., f, g.
Minneapolis-Honeywell Regulator Co., Ordnance Div., b, g.
Minnesota Mining & Mfg. Co., a thru e.
Minnesota Rubber Co., f.
Mitronics Inc., b.
Monogram Precision Industries, b, c, f, g.
Motorola Inc., Military Electronics Div., b.
Narmco Mfg. Co., c.
National Beryllia Corp., a thru e.
National Ceramic Co., a.
National Vulcanized Fibre Co., c, d, e, g.
Natvar Corp., c, f.
New England Laminates Co., Inc., e.
Norton Co., b.
Norton Co., New Products Dept., b, c, d.
Peerless Products Industries, c, g.
Penn Fibre & Specialty Co., Inc., d, e, g.
Penn-Michigan Mfg. Corp., g.
Permacel, c, e, f.
Piasecki Aircraft Corp., g.
Pilgrim Products Inc., c, d, e, g.
Plastic Age Sales, Inc., b, c.
Polymer Corp., The, a, c, d, e, g.
Raybestos-Manhattan, Inc., f.
Raytheon Mfg. Co., b.
Rogers Corp., b thru g.
Rubbercraft Corp. of California, f.
Russell Reinforced Plastics Corp., e.
Ryan Aeronautical Co., g.
St. Regis Paper Co., Panelyte Div., d, e, g.
Sealectric Switch & Relay Corp., g.
Silicone Insulation, Inc., c, d, e, g.
Silicones Div.-Union Carbide Corp., f.
Skinner Precision Products, c, g.
Stanley-Judd Div.-The Stanley Works, g.
Staver Co., Inc., The, g.
Stevens Products, Inc., g.
Strat-O-Seal Mfg. Co., f.
Superior Steatite & Ceramic Corp., a thru d, g.
Sylvania Electric Products Inc., Parts Div., g.
Taylor Fibre Co., d, e, g.
Thermal Refractories Corp., a, b, c.
H. I. Thompson Fiber Glass Co., c.
Topper Mfg. Co., Inc., a thru g.
Union Asbestos & Rubber Co., c, e.
United Mineral & Chemical Corp., b.
United States Rubber Co., c.
Varflex Corp., c, f.
Warren Wire Co., c, e.
Wasley Products, Inc., g.
Western Felt Works & Acadia Synthetic Products Div., e.
Western Gold & Platinum Co., a, b, c.
Westinghouse Electric Corp., e.
Wilmington Fibre Specialty Co., c, d, e, g.
Zippertubing Co., The, c.

INSULATORS

a. Antenna Insulators & Spring Assemblies
b. Bead
c. Bearing
d. Can Liner
e. Ceramic
f. Cord
g. Electric
h. Fabricated
i. Feed Through
j. Feeder Spreader
k. Fused Quartz
l. Glass Bonded Mica
m. High Dielectric Paper
n. HV Power Line
o. Laminated
p. Metallized Bushing
q. Mica
r. Molded
s. Plastic
t. Rods
u. Sheets
v. Shock
w. Shock & Vibration
x. Sleeve
y. Standoff
z. Strain
a1. Test Clip
b1. Thermal
c1. Thermocouple
d1. Tower
e1. Transmitting Antenna

*AC ELECTRONICS DIV., GENERAL MOTORS CORP., c-1.
AMP Inc., i, r, s.
Accurate Electronics Corp., Dept. D, a, h, i, m, o, r, s, y.
Aero Gasket Corp., r, s.
Aero Research Instrument Co. Inc., c-1.
Aerolite Electronics Corp., a, h, i, o, s, x, y, z.
Allied Plastics Supply Corp., b, c, h, i, l, m, o, q thru x.
Amatom Electronic Hardware Co. Inc., i, s.
American Aeroparts, l, s, t, w.
American Agile Corp., r thru u.
American Latex Products Corp., r, s.
American Lava Corp., e, y, z.
American Molded Products Co., r, s.
Anchor Plastics Co., Inc., s, t.
Antenna Specialists Co., The, a.
Anti-Corrosive Metal Products Co., Inc., r, s.
Armel Electronics, Inc., i, r, s, y.
Atlantic Research Corp., s, v, w.
Atmo Seal Co., i, y.
Auburn Spark Plug Co., Inc., a, e, m, q, s.
B G Corp., The, e.
Barker Sales Co., m, n.
W. A. Beauchaine H Sons Inc., r, s.
Bendix Filter Div., Bendix Aviation Corp., v, w.
Bergen Carbide Co., e, h.
Carl H. Biggs Co., f, b-1.
Birma Mfg. Co., Inc., e, r, u, v, w, b-1.
Birnbach Radio Co., Inc., a, e, i, j, s, x, y, z, a-1, e-1.
Bonny Mfg. Corp., r thru u.
Borden Chemical Co., s.
Bram Metallurgical & Chemical Co., k, q.
William Brand & Co., Inc., s, x.
Bristol Co., The, c-1, d-1.
Bushings, Inc., v, w.
Calfibe Co., Inc., o, s, w.
Cambridge Thermionic Corp., e, i, s.
Carborundum Co., Latrobe Plant, Refractories Div., b, e, g thru j, p, r, t, u, x, y, z, c-1.
Carborundum Co., Refractories Div., a.
Centralab, Div.-Globe-Union, b, e, g, i, p, t, x, y.
Ceramaseal, Inc., i, p, y.
Chemold Co., r, s, u.
Chemplast, Inc., c, d, h, r thru u, x, a-1.
Chicago Gasket Co., s.
Cleveland Container Co., The, s, x.
Colonial Rubber Co., r, u, w.
Columbia Products Co., a, o, s, t, x, z, e-1.
Comco Plastics Inc., h, l, o, s.
Commercial Plastics & Supply Corp., s, t, u.
Continental Diamond Fibre Corp., o, q, t, u, x.
Continental Rubber Works, r.
Corning Glass Works, e, g, i, k.
Crane Packing Co., b, i, s, t, u, x, y.
DBM Research Corp., s, t, u.
Dayton Aircraft Products, Inc., a, s.
Dayton Rubber Co., The, r, s.
Dell Optics Co., Ltd., k.
Delta Chemical Works, Inc., e, k.
Dennis Chemical Co., g, s.
Diamonite Products Mfg. Co., e, t, u.
Dielectric Materials Co., s, x.
Dixon Corp., s.
Du-Co Ceramics Co., b, e, s, y, z, c-1.
E. I. Du Pont De Nemours & Co. Inc., o, u.
Duramic Products Inc., a.
Electric Auto-Lite Co., The, a.
Electrical Insulation Co., Inc., g, h, o, s, t, u, y.
Electrical Refractories Co., The, a.
Electronic Mechanics, Inc., i, l.
Emeloid Co., Inc., The, r, s, u.
Emerson & Cuming, Inc., s, t, u.
Emerson Plastics Corp., b, c, d, g, h, i, l, o, q thru u, x.
Enfab Inc., w.
Engelhard Industries, Inc., e, c-1.
Erie Resistor Corp., a.
Fluorulon Labs., Inc., s, t, u.
Ford Radio & Mica Corp., q.
Formica Corp., h, o, s, t, u, x.
Franklin Fibre-Lamitex Corp., h, o, s, t, u.
Frenchtown Porcelain Co., e, i, p.
Furane Plastics, Inc., a, g, h, q, r.
Garde Mfg. Co., i, r, s, y.
General American Transportation Corp., r, s.
General Cement Mfg. Co., Div.-Textron, Inc., a, r, y, z, a-1.
General Electric Co., Apparatus Sales Div., e, n, r, d-1.
General Electric Co., Insulator Dept., a, e, g, n, y, z, d-1, e-1.
General Plastics Corp. of New Jersey, o, s, u.
Gering Products, Inc., u.
Gladding, McBean & Co., a, e, g, i, p, t, u, x, y, b-1, c-1.
Glasseal Products Co., Inc., i, y.
Globar Plant, Refractories Div.-The Carborundum Co., c-1.
Goe Engrg. Co., e, i, y.
Claud S. Gordon Co., b-1, c-1.
Grant Chemical Co., Inc., s.
Haveg Industries, Inc., c, d, e, g, h, i, k, l, o, q thru u, b-1.
Hays Mfg. Co., h, o, q, r, t, y.
Heyman Mfg. Co., f, z.
Hobson Brothers, Inc., i, r.
Holex, Inc., i.
Homalite Corp., The, g, r thru u.
Houghton Laboratories, Inc., s, t, u.
Huntington Rubber Mills, w.
Hydro Molding Co., Inc., r, s.
I-T-E- Circuit Breaker Co., g.
ITT Federal Div., International Telephone & Telegraph Corp., i.
Integrated Mica Corp., l, o, q, u.
Isolantite Mfg. Corp., a, b, e, g thru j, p, r, t, y, z, l-1.
Jan Hardware Mfg. Co., Inc., n, x, y.
Janco Corp., a.
Jessall Plastics, s, t.
Joclin Mfg. Co., i, r, s, y.
Jodee Plastics Co., h, l, o, s, t, u, x.
Johns-Manville, m, r thru x, b-1.
Johns-Manville Sales Corp., g, m, r, s, b-1.
E. F. Johnson Co., a, i, j, y, z, e-1.
J. W. Johnson & Co., Inc., v, w.
Keystone Electronics Corp., h.
Kip Electronics Corp., b, e, r, s, y.
Lamtex Industries, Inc., o, p, s, u, x.
Landsverk Electrometer Co., The, r, s.
Lone Star Plastics Co. Inc., o, r, s.
Thomas J. Long, Inc., h, o, s, t, u.
Louthan Mfg. Co., The, Div.-Ferro Corp., a.
MB Mfg. Co., w.
M & Q Plastic Products, s, t.
Mansfield Fabricators Inc., h, o, s, u.
Mark Products Co., a.
Maryland Lava Co., a, b, c, e, g, i, s thru z, c-1.
*MC CORMICK SELPH ASSOCIATES, i.
J. E. Menaugh Co., x.
Mercury Tool & Mfg. Corp., h.
Metallizing Co. of Los Angeles Inc., a.
Mica Fabricating Co., k, l, o, q thru u, x.
Mica Insulator Div.-Minnesota Mining & Mfg., Co., q thru u.
Micacraft Products Inc., l.
Minneapolis-Honeywell Regulator Co., Industrial Product Group, c-1.
Minneapolis-Honeywell Regulator Co., Ordnance Div., e, r, s.
Minnesota Mining & Mfg. Co., a, b, e, g, l, m, o, q thru u, x, b-1.
Minnesota Rubber Co., h, r.
*MIRAX CHEMICAL PRODUCTS CORP., METAL CONTAINER DIV., d, s, w.
Mitronics Inc., e, i, p.
Monogram Precision Industries, d, a.
Motorola Inc., Military Electronics Div., a.
Mueller Electric Co., a-1.
Mullenbach Div.-Electric Machinery Mfg. Co., g, s.
NRC Equipment Corp., b-1.
National Beryllia Corp., b, e, b-1, c-1.
National Ceramic Co., e, i, y, z.
National Tel-Tronics Corp., s, t, u, x.
National Vulcanized Fibre Co., g, h, o, s, t, u.
New England Laminates Co., Inc., o, u.
New England Tape Co., Div.-United-Carr Fastener Corp., i, s, x.
M. M. Newman, Corp., s.
Northern Plastics Corp., u.
Norton Co., e, b-1, c-1.
Norton Co., New Products Dept., a.
Pacific Scientific Co., w.
Peerless Products Industries, g, h, r, x.
Penn Fibre & Specialty Co., Inc., g, h, m, o, s, t, u.
Permax Products Div., Chisholm-Ryder Co., Inc., a.
Perry Plastics, Inc., s.
Pilgrim Products Inc., g, n, r, s, t, w.
Plastic Age Sales, Inc., o, r, s.
Polymer Corp., The, c, h, s, t, u, y.
Precision Sheet Metal, Inc., h.
Raybestos-Manhattan, Inc., Pa., s.
Raytheon Mfg. Co., a.
Rex Corp., The, Sub.-American Enka, s, x, b-1.
Robinson Technical Products, Inc., v, w.
Rogers Corp., g, h, m, o, r thru u.
Milton Ross Metals Co., The, i, o, r, s, x, y, z.
Rubbercraft Corp. of California, r, w.
Russell Reinforced Plastics Corp., o, s.
St. Regis Paper Co., Panelyte Div., o, s, t, u.
Sanford Plastics Corp., s, t, u, x.
D. A. Schultz Co., h.
Silicone Insulation, Inc., b, d, g, h, o, r thru u, x, b-1.
Sinclair Mfg. Co., h, o, s.
Skinner Precision Products, x.
Sparta Mfg. Co., Div.-U. S. Ceramic Tile Co., s, x.
Spaulding Fibre Co., Inc., m, o, s, t, u.
Spruce Pine Mica Co., Inc., g, m, q.
Stanley-Judd Div.-The Stanley Works, a, a-1.
Staver Co., Inc., The, h, o, w.
Stevens Products, Inc., h, o, r.
Strat-o-Seal Mfg. Co., i.
Superior Cable Corp., x.
Superior Steatite & Ceramic Corp., b, e, r, s, y.
Swedlow Inc., o, r, s, u.
Sylvania Electric Products Inc., Parts Div., q, r, s.
Taylor Fibre Co., o, s, t.
Technical Appliance Corp., y.
Thermal Refractories Corp., b, c, e, b-1, c-1.
Thermo Electric Co., Inc., c-1.
Thompson Engrg. Co., The, Missile Products Div., k.
Torwico Electronics, Inc., i.
Turbo Products, Inc., s.
Ucinite Co., The, Div.-United-Carr Fastener Corp., w.
Union Asbestos & Rubber Co., h, o, u, b-1.
United Mineral & Chemical Corp., e, l, q.
United States Rubber Co., w, x, b-1.
Universal Moulded Products Corp., r, s.
Valpey Crystal Corp., k.
Victor R. F. & Microwave Co., a, s.
Waterbury Companies, Inc., q, r.
West Instrument Corp., c-1.
Western Coating Co., s.
Western Felt Works & Acadia Synthetic Products Div., s, u.
Western Gold & Platinum Co., d.
Westinghouse Electric Corp., l, q.
Wilmington Fibre Specialty Co., s, t, u.
Wind Turbine Co., a, h, i, j, s, y, z, d-1, e-1.
Winder Aircraft Corp. of Florida, h.
Yardley Plastics Co., s.
Zippertubing Co., The, s, x, b-1.

INTEGRATORS, ELECTRONIC

Airborne Instruments Lab., Div.-Cutler-Hammer, Inc.
Allegany Instrument Co., Inc.
Analytical Instruments, Inc.
Antlab Inc.
Bendix Computer, Div.-Bendix Aviation Corp.
Briggs Associates, Inc.
Bristol Co., The
Burton-Rodgers, Inc.
Chesapeake Instrument Corp.
Colorado Research Corp.
Consolidated Diesel Electric Corp.
Dalmotor Div., Yuba Consolidated Industries, Inc.
Di-An Controls, Inc.
Donner Scientific Co.
Dymec Inc.
Elcor, Inc.
Eldorado Electronics
Electro Instruments, Inc.
Emerson Electric Mfg. Co., The, Electronics & Avionics Div.
Federal Mfg. & Engrg. Corp.
Feedback Controls, Inc.
Fischer & Porter Co.
Graflex Inc.
Hazeltine Electronics Div.-Hazeltine Corp.
Helipot Div.-Beckman Instruments Inc.
I-L-S Instrument Div., The Meriam Instrument Co.
ITT Labs.
*KEARFOTT CO., INC.
Land-Air Inc.
Lear, Inc.
Lear, Inc., Grand Rapids Div.
Librascope Inc.
W. L. Maxson Corp., The
Minneapolis-Honeywell Regulator Co., Industrial Product Group
Miratel, Inc.
Morse Instrument Co., The
Motorola Inc., Military Electronics Div.
Philco Corp., Government & Industrial Div.
Power-Tronic Systems Inc.
Radiation, Inc.
Raymond Engrg. Lab., Inc.
Reeves Instrument Corp.
Research Appliance Co.
Scientific-Atlanta, Inc.
Sequoia Wire & Cable Co., Div.-Mandrel Industries, Inc.
Servomechanisms, Inc.
Spectrum Instruments, Inc.
Stanley Aviation Corp.
Summers Gyroscope Co.
Sun Electric Corp., Aeronautical Div.
U. S. Industries, Inc.
U. S. Science Corp., Div.-Topp Industries, Inc.
Varian Associates
Waldorf Electronics. Div.-F.C. Huyck & Sons
Webcor, Inc., Government Div.
Weston Instruments, Div.-Daystrom, Inc.

INTERCOMMUNICATION SYSTEMS

Barker Sales Co.
Bendix Radio Div., Bendix Aviation Corp.
Bliss Electronic Corp.

Bionder-Tongue Labs., Inc.
Bogen-Presto Co., Div.-Siegler Corp., The
Chalco Engrg. Corp.
Continental Mfg., Inc.
Cooper Development Corp., Sub.-Marquardt Aircraft Co.
Dayton Aviation Radio & Equipment Corp.
Du Kane Corp.
Electronic Communications, Inc.
Executone, Inc.
Federal Mfg. & Engrg. Corp.
Feiler Engrg. & Mfg. Co.
Fidelity Amplifier Co.
Flush Wall Radio Co.
General Precision Lab. Inc.
Gilfillan Bros. Inc.
ITT-Kellogg
Lane Electronics Mfg. Corp.
Litton Industries, Maryland Div.
J. M. Lage, Sound Engineers
Miratel, Inc.
Motorola Inc., Military Electronics Div.
National Pneumatic Co., Inc., Holtzer-Cabot Divs.
North Electric Co.
Perry Plastics, Inc.
Philco Corp., Government & Industrial Div.
Precise Development Corp.
***RHEEM MFG. CO., DEFENSE & TECHNICAL PRODUCTS DIV.**
Specialty Engrg. & Electronics Co.
Stromberg-Carlson Div.-General Dynamics Corp.
Talk-A-Phone Co.
Telectro Industries Corp.
Television Utilities Corp.
U. S. Science Corp., Div.-Topp Industries, Inc.
Webcor, Inc., Government Div.

INTERFERENCE EQUIPMENT, RF

Double E Products Co.
Hallett Mfg., Co.
Hallicrafters
Hazeltine Electronics Div.-Hazeltine Corp.
ITT Federal Div., International Telephone & Telegraph Corp.
ITT Labs.
Interference Measurement Laboratory, Inc.
Jansky & Bailey, Inc.
Litton Industries, Maryland Div.
Motorola Inc., Military Electronics Div.
Philco Corp., Government & Industrial Div.
Tapco Group, Thompson-Ramo-Wooldridge Inc.
Telectro Industries Corp.

INTERNAL POWER SUPPLY SYSTEMS, MISSILE

***BENDIX AVIATION CORP., HAMILTON DIV.**

INTERVALOMETERS

Atlas Precision Products, Co.
Bell & Howell Co.
Bendix-Pacific Div., Bendix Aviation Corp.
Brown Engrg. Co., Inc.
Bulow Electric Co.
Cedar Engrg. Div.-Control Data Corp.
Chicago Aerial Industries, Inc.
Cooper Development Corp., Sub.-Marquardt Aircraft Co.
Daystrom Pacific Div.-Daystrom, Inc.
Destron Co.
Di-An Controls, Inc.
Elgin Micronics Div.-Elgin National Watch Co.
Elgin Micronics, West Coast Div.-Elgin National Watch Co.
***A. W. HAYDON CO., THE**
Hycon Mfg. Co.
Jordan Electronics, Div.-Victoreen Instrument Co.
Revere Corp. of America
Telectro Industries Corp.
Tempo Instrument Inc.
Textron Corp.
Traid Corp.
Trio Laboratories, Inc.
U. S. Science Corp., Div.-Topp Industries, Inc.
Webcor, Inc., Government Div.
Western Design, Div.-U.S. Industries, Inc.; Santa Barbara Div.

INVERTERS

a. DC-AC
b. Measurement
c. Power Supply
d. Rectifier

ACF Industries Inc., a.
Accurate Instrument Co., a.
Aerojet-General Corp., a thru d.
Aerolab Development Co., a thru d.
Airborne Accessories Corp., a.
Alto Scientific Co., Inc., a.
Amelco, Inc., c.
American Electronics, Inc., a, c.
American Missile Products Co., Inc., a, c.
American Research & Mfg. Corp., a, c.
***ARNOUX CORP.**, a, c, d.
Bendix Aviation Corp., Red Bank Div., a thru d.
Bendix Aviation Corp., York Div., a, c.
Bogue Electric Mfg., Co., a, c, d.
Bristol Co., The, a, b.
Brown Engrg. Co., Inc., a, b, c.
Brunswick Instruments, a.
Carruthers & Fernandez, Inc., a, c, d.
Chalco Engrg. Corp., a, c, d.
Chrysler Corp., Defense Operations Div.
Consolidated Avionics Corp., a thru d.
Consolidated Diesel Electric Corp., a, c.
Continental Electric Co., Inc., a.
Cornell-Dubilier Electric Corp., a, c.
Cubic Corp., d.
Curtiss-Wright Corp., Research Div.
Dalmotor Div., Yuba Consolidated Industries, Inc., a, c, d.
Daven Co., The, a, c, d.
Davenport Mfg. Co., a, c.
Dresser Industries, Inc., a, c, d.
Eicor Div.-Scranton, b.
Electronic Research Associates, Inc., a, c.
Electro Products Laboratories, Inc., a, c.
Engineered Magnetics, Div.-Gulton Industries, Inc., a, b, c.
Fairfield Engrg. Corp.
Ferrotran Electronics Co., Inc., a, c.
Freed Transformer Co. Inc., a, c.
General Electric Co., Apparatus Sales Div., a, c, d.
Georator Corp., a, c.
Geotronic Labs. Inc., a.
Green Rectifier Co., c, d.
Guided Missile Div.-De Havilland Aircraft of Canada, Ltd., a, c.
Gulton Industries, Inc., a.
Hallamore Electronics Co., a.
Hertner Electric Co., The, a, c.
Hoover Electric Co., a.
Industrial Test Equipment Co., c.
International Research Associates, a.
Jack & Heintz, Inc., a, c, d.
Jordan Electronics, Div.-Victoreen Instrument Co., a.
Kaiser Aircraft & Electronics, Div.-Kaiser Industries Corp., a, c.
La Roe Instruments, Inc., a, c.
Leach Corp., a, c.
Lear, Inc., a, c.
Leland Airborne Products, Div.-American Machine & Foundry Co., a, c, d.
Litton Industries, Maryland Div., a.
Magnetic Controls Co., a, c.
W. L. Maxson Corp., The
Minneapolis-Honeywell Regulator Co., Industrial Product Group, a.
Minneapolis-Honeywell Regulator Co., Ordnance Div., a, c, d.
Motorola Inc., Military Electronics Div., a.
Heinz Mueller Eng. Co. Inc.
National Pneumatic Co., Inc., Holtzer-Cabot Divs., a, c.
Networks Electronic Corp., a, c.
Ohio Semiconductors, Inc., a.
D. W. Onan & Sons Inc., a, c.
Pacific Magnetic Corp., a, c, d.
Perkin Engrg. Corp., a thru d.
Perry Plastics, Inc., c.
Pesco Products Div.-Borg-Warner Corp., a.
Power Supplies Inc., a, c, d.
Power Sources, Inc., a, c, d.
Redmond Co., Inc., a.
***RHEEM MFG. CO., DEFENSE & TECHNICAL PRODUCTS DIV.**, a.
Rixon Electronics Inc., a.
Royal Industries, Inc., a.
Sangamo Electric Co., a, c.
Sequoia Wire & Cable Co., Div.-Mandrel Industries, Inc., a, c, d.
Servomechanisms, Inc., a.
Sorensen & Co., Inc., a, c.
Spectrol Electronics Corp., a, c.
Talley Corp., The, a, c, d.
Tapco Group, Thompson-Ramo-Wooldridge Inc., a.
Technical Apparatus Builders, a thru d.
Technology Instrument Corp., a.
Terado Co., a, c.
Torwico Electronics, Inc., a.
Trans Electronics, Inc., a, c.
Transonic, Inc., a, c, d.
United Control Corp., a, d.
U. S. Science Corp., Div.-Topp Industries, Inc., c.
Varo Mfg. Co., Inc., a, c.
Western Design, Div.-U.S. Industries, Inc.; Santa Barbara Div., a.
Western Gear Corp., a, c, d.
Westinghouse Electric Corp., a, c, d.
Wincharger Corp., Sub.-Zenith Radio Corp., a, c.

ION TRAPS

Philco Co., Government & Industrial Div.

IRONS, SOLDERING

See SOLDERING IRONS

ISOLATORS, MICROWAVE

Airtron Inc., Div.-Litton Industries
Canoga Div., Underwood Corp.
DBM Research Corp.
Diamond Antenna & Microwave Corp.
Douglas Microwave Co., Inc.
ITT Labs.
J-V-M Microwave Co.
***KEARFOTT CO., INC., MICROWAVE DIV.**
Litton Industries, Inc.
Lockheed Aircraft Corp., Missiles & Space Div.
Microwave Associates, Inc.
Monogram Precision Industries
Motorola Inc., Military Electronics Div.
N.R.K. Mfg. & Engrg. Co.
Philco Corp., Government & Industrial Div.
Polytechnic Research & Development Co., Inc.
Radar Design Corp.
Sage Labs., Inc.
Sperry Microwave Electronics Co., Div.-Sperry Rand Corp.
Sylvania Electric Products Inc., Special Tube Operations
Tamar Electronics, Inc.
Victor R. F. & Microwave Co.

JACK PANEL ASSEMBLIES

Accurate Electronics Corp., Dept. D
Aerodex, Inc.
Aerolite Electronics Corp.
Aerovox Corp.
Audio Development Co.
Automatic Electric Sales Corp.
Barker Sales Co.
Bernco Engrg. Corp.
Bud Radio Inc.
Carmody Corp.
Coaxial Connector Co. Inc.
Coils-Electronics
Croname Inc.
Donner Scientific Co.
Electrical Insulation Co., Inc.
Electrocraft, Inc.
Electromath Corp.
Electro-Mechanical Products Co.
***ETS-HOKIN & GALVAN**
First Electronics Corp., The
Fletcher Mfg. Co., Inc., The
Foto-Video Labs., Inc.
Good Electronic Corp.
Harco Labs., Inc.
Paul Hardeman, Inc.
ITT-Kellogg
Jan Hardware Mfg. Co., Inc.
Jodee Plastics Co.
Keystone Electronics Corp.
Mid-West Metal Products, Inc.
Minneapolis-Honeywell Regulator Co., Industrial Div.
Minneapolis-Honeywell Regulator Co., Industrial Product Group
Modelectric Products Corp.
Mullenbach Div.-Electric Machinery Mfg. Co.
National Pneumatic Co., Inc., Holtzer-Cabot Divs.
North Electric Co.
Paraplegics Mfg. Co., Inc.
Ravenna Metal Products, Div.-Standard Screw Co.
Reinhold Engrg. & Plastics Co.
Milton Ross Metals Co., The
Skyline Electric & Mfg. Co.
Standard Electric Time Co., The
Stromberg-Carlson Div.-General Dynamics Corp.
Switchcraft, Inc.
Telectro Industries Corp.
United Aircraft Products, Inc.
Waltham Horological Corp.

JACKS

Accurate Electronics Corp., Dept. D
Aerovox Corp.
Alden Products Co.
Amatom Electronic Hardware Co. Inc.
Audio Development Co.
Automatic Electric Sales Corp.
Barker Sales Co.
Cambridge Thermionic Corp.
Coaxial Connector Co. Inc.
Colson Corp., The
Crown Controls Co., Inc.
Dockendorff & Co. Inc.
Electrocraft, Inc.
General Cement Mfg. Co., Div.-Textron, Inc.
Globe Hoist Co.
Harco Labs., Inc.
Holland Hitch Co.
Hoover Electric Co.
Horkey-Moore Associates
Hufford Corp., The
Indusl. Prod.-Danbury Knudsen Div. Amphenol-Borg Electronics Corp.
ITT-Kellogg
Javex Electronics
E. F. Johnson Co.
Howard B. Jones Div.-Cinch Mfg. Corp.
Keystone Electronics Corp.
Walter Kidde & Co., Inc., Aviation Div.
Lear, Inc.
P. R. Mallory & Co. Inc.
Minneapolis-Honeywell Regulator Co., Industrial Div.
Minneapolis-Honeywell Regulator Co., Industrial Product Group
National Pneumatic Co., Inc., Holtzer-Cabot Divs.
National Tel-Tronics Corp.
North Electric Co.
Paul Nurches Co.
Raytheon Mfg. Co.
Regent Jack Mfg. Co., Inc.
Milton Ross Metals Co., The
Rotary Lift Co., Div.-Dover Corp.
Sancor Corp.
Specialty Engrg. & Electronics Co.
Standard Electric Time Co., The
Stromberg-Carlson Div.-General Dynamics Corp.
Superex Electronics Corp.
Switchcraft, Inc.
Templeton, Kenly & Co.
Ucinite Co., The, Div.-United-Carr Fastener Corp.
U. S. Industries, Inc.
Vard Inc.

W-S Fittings Works, Forge & Fittings Div., H. K. Porter Co. Inc.
Waltham Horological Corp.

JET ENGINE DIAPHRAGMS
See DIAPHRAGMS, JET ENGINE

JET ENGINE IGNITERS
See IGNITERS, JET ENGINE

JET ENGINE NOZZLE DIAPHRAGMS
See DIAPHRAGMS, JET ENGINE NOZZLE

JET ENGINE TAILPIPES
See TAILPIPES, JET ENGINE

JET ENGINES

***AIRESEARCH MFG. CO., DIV.-THE GARRETT CORP.**
Curtiss-Wright Corp., Research Div.
Curtiss-Wright Corp., Wright Aeronautical Div.
General Electric Co., Apparatus Sales Div.
M. W. Kellogg Co., The
Marquardt Aircraft Co.
Smith-Morris Corp.
Solar Aircraft Co.
Westinghouse Electric Corp.

JEWELS

Federal Screw Products Inc.
Hamilton Watch Co.-Industrial Div.
Hugo P. Keller, Jr.
Norton Co., New Products Dept.
Sphinx-American Co.
Swiss Jewel Co.
United Mineral & Chemical Corp.
Valpey Crystal Corp.
Waltham Precision Instrument Co.

JEWELS, GLASS

Richard H. Bird & Co., Inc.
Dialight Corp.
General Electric Co., Apparatus Sales Div.
Grimes Mfg. Co.
Sphinx-American Co.
Valpey Crystal Corp.

JOINT ASSEMBLIES

Aero Supply Mfg. Inc.
Atlantic Instrument Corp., Sub.-American Electronics, Inc.
Carmac Aviation
Chiksan Co., Sub.-Food Machinery & Chemical Corp.
Dunbar-Kapple Inc.-Aircraft Components Div.
***FLEXONICS CORP., AERONAUTICAL DIV.**
Marman Div., Aeroquip Corp.
N. R. K. Mfg. & Engrg. Co.
National Utilities Corp.
Piasecki Aircraft Corp.
Smith-Morris Corp.
Solar Aircraft Co.
Ullman Devices Corp.
Variety Aircraft Corp.

JOINTS
a. Ball
b. Swivel
c. Torsion
d. Universal

Accessory Products Co., Div.-Textron Inc., **a thru d.**
Allegany Instrument Co., Inc., **a.**
American Aeroparts, **a thru d.**
Apex Machine & Tool Co., The, **d.**
Atlantic Instrument Corp., Sub.-American Electronics, Inc., **a, d.**
Barco Mfg. Co., **a, b.**
Chiksan Co., Sub.-Food Machinery & Chemical Corp., **b.**
Com-Air Products, Div.-A S R Products Corp., **b.**
Components Corp., **a, b.**
Consolidated Diesel Electric Corp.
Corbin Products Div., **a.**
Curtis Universal Joint Co., Inc., **d.**
Curtiss-Wright Corp.-South Bend Div., **a.**
Diversey Engrg. Co., **a, b.**
Dockendorff & Co. Inc., **c.**
Dumont Aircraft Fitting Co., **b.**
Dunbar-Kapple Inc.-Aircraft Components Div., **a thru c.**
Essex Mfg., Co., Inc., **b.**
Lovejoy Flexible Coupling Co., **d.**
Lux Clock Mfg. Co., Inc., **d.**
Marman Div., Aeroquip Corp., **d.**
National Utilities Corp., **b.**
OPW-Jordan, **a, b.**
PIC Design Corp., Sub.-Benrus Watch Co., Inc., **a thru d.**
Parts Engrg. Co., Inc., **d.**
Peerless Machine Co., **b.**
Penn-Michigan Mfg. Corp., **a.**
Rockwell-Standard Corp., **d.**
Rohr Aircraft Corp., **a.**
Ryan Aeronautical Co., **a, d.**
Sargent Engrg. Corp., **c.**
Sealol Corp., **b.**
Sittler Corp., **d.**
Solar Aircraft Co., **a.**
Southwest Products Co., **a, b, c.**
Ullman Devices Corp., **a.**
United Supply Co., **a, b.**
Vard Inc., **a, b, c.**
Waste King Corp., Technical Products Div., **a, b, c.**

JUMPERS, BONDING

AMP Inc.
Aerolite Electronics Corp.
Best Aircraft Corp.
Birnbach Radio Co., Inc.
Century Fasteners Corp.
Entron, Inc.
First Electronics Corp., The
Hallett Mfg., Co.
Janco Corp.
Modelectric Products Corp.
New England Electrical Works, Inc.

JUNCTION BOXES & PANELS

A & P Metal Products Mfg. Corp.
Abalon Precision Mfg. Corp.
Accurate Electronics Corp., Dept. D
Adept Industries Inc.
Aerodex, Inc.
Aerolite Electronics Corp.
Alpitec, Inc.
Anchor Metal Spinning Co., The
Associated Engineers, Inc.
Brooks & Perkins, Inc.
Bud Radio Inc.
Cable Electric Products Inc.
Chrysler Corp., Defense Operations Div.
Coaxial Connector Co. Inc.
Coils-Electronics
Colonial Aircraft Corp.
Consolidated Productions, Inc.
Daven Co., The
Dayton Aviation Radio & Equipment Corp.
Electro-Mechanical Products Co.
Federal Mfg. & Engrg. Corp.
Firestone Tire & Rubber Co., The, Guided Missile Div.
Fletcher Mfg. Co., Inc., The
General Electric Co., Apparatus Sales Div.
Grimes Mfg. Co.
Hardman Tool & Engrg. Co.
Ludwig Honold Mfg. Co.
Minneapolis-Honeywell Regulator Co., Industrial Product Group
***MIRAX CHEMICAL PRODUCTS CORP., METAL CONTAINER DIV.**
Motorola Inc., Military Electronics Div.
Mullenbach Div.-Electric Machinery Mfg. Co.
Paraplegics Mfg. Co., Inc.
Piasecki Aircraft Corp.
C. F. Roark Welding & Engrg. Co., Inc.
Skyline Electric & Mfg. Co.
Specialty Engrg. & Electronics Co.
Suffolk Products Corp.
Twin Coach Co., Aircraft-Missiles
United Aircraft Products, Inc.
Variety Aircraft Corp.

JUNCTIONS, HYBRID, MICROWAVE

Aircom Inc. of New Jersey
Airtron Inc., Div.-Litton Industries
Alford Mfg. Co.
Antenna & Radome Research Associates
W. A. Beauchaine & Sons Inc.
Bendix Aviation Corp., York Div.
Coaxial Connector Co. Inc.
Cooper Development Corp., Sub.-Marquardt Aircraft Co.
Demornay-Bonardi
Douglas Microwave Co., Inc.
John Gombos Co., Inc.
I-T-E Circuit Breaker Co.
Indusl. Prod.-Danbury Knudsen Div. Amphenol-Borg Electronics Corp.
J-V-M Microwave Co.
Litton Industries, Inc.
Meridian Metalcraft, Inc.
Microwave Associates, Inc.
Monogram Precision Industries
N. R. K. Mfg. & Engrg. Co.
Narda Microwave Corp., The
Omega Labs., Inc.
Philco Corp., Government & Industrial Div.
Portchester Instrument Corp.
Radar Design Corp.
Sage Labs., Inc.
Special Instruments Div., British Industries Corp.
Telerad Mfg. Corp.
Wheeler Laboratories, Inc.

KEYERS

Applied Science Corp. of Princeton
Barker Sales Co.
Cooper Development Corp., Sub.-Marquardt Aircraft Co.
Dayton Aviation Radio & Equipment Corp.
Foto-Video Labs., Inc.
General Devices, Inc.
General Precision Lab. Inc.
Grimes Mfg. Co.
Jordon Electronics, Div.-Victoreen Instrument Co.
Kauke & Co.
Litton Industries, Maryland Div.
Minneapolis-Honeywell Regulator Co., Ordnance Div.
Motorola Inc., Military Electronics Div.
Munston Mfg. & Service, Inc.
National Pneumatic Co., Inc., Holtzer-Cabot Divs.
Nuclear Products-Erco Div.-ACF Industries, Inc.
Radar Relay, Inc.
Radiation, Inc.
Seeburg Corp., The
Suffolk Products Corp.
Telechrome Mfg. Corp.
Telectro Industries Corp.
Towaco Electronics
United Control Corp.
Webcor, Inc., Government Div.
Winder Aircraft Corp. of Florida

KEYERS & COUPLERS

Barker Sales Co.
Bendix Aviation Corp., York Div.
Dayton Aviation Radio & Equipment Corp.
National Pneumatic Co., Inc., Holtzer-Cabot Divs.
Radiation, Inc.
Telectro Industries Corp.

KEYS & CODING EQUIPMENT

Barker Sales Co.
CGS Labs., Inc.
Dayton Aviation Radio & Equipment Corp.
General Devices, Inc.
E. F. Johnson Co.
Kauke & Co.
Motorola Inc., Military Electronics Div.
National Pneumatic Co., Inc., Holtzer-Cabot Divs.
North Electric Co.
Soroban Engrg., Inc.
Stromberg-Carlson Div.-General Dynamics Corp.
Telectro Industries Corp.
Vitro Labs.
Western Design, Div.-U. S. Industries, Inc.; Santa Barbara Div.
Winzen Research Inc.

KILOVOLTMETERS

Associated Research, Inc.
Beede Electrical Instrument Co. Inc.
Bristol Co., The
Davenport Mfg. Co.
Del Electronics Corp.
Electro Instruments, Inc.
Electro-Tech Equipment Co.
Ferranti Electric Inc.
General Electric Co., Apparatus Sales Div.
Jennings Radio Mfg. Corp.
Keithley Instruments, Inc.
Meters Inc.
Minneapolis-Honeywell Regulator Co., Industrial Product Group
National Electronics
New England Scientific Instruments Co.
Rawson Electrical Instrument Co.
Shallcross Mfg. Co.
Sun Electric Corp., Aeronautical Div.
Wacline, Inc.
Weston Instruments, Div.-Daystrom, Inc.

KITS
a. Geiger Counter
b. Modification
c. Portable Lighting
d. Test Equipment

Aerojet-General Corp., **d.**
Anton Electronic Labs., Inc., **a.**
Associated Research, Inc., **d.**
Atlas Precision Products, Co., **d.**
A. Biederman, Inc., **d.**
Borden Chemical Co.
Burton-Rogers, Inc., **d.**
Centronix Inc., **d.**
Consolidated Diesel Electric Corp., Western Div., **d.**
Continental Technical Service, Inc., **d.**
Cooper Development Corp., Sub.-Marquardt Aircraft Co., **c.**
Cornelius Co., The, Aero Div., **b, d.**
Curtiss-Wright Corp., Research Div., **d.**
Double E Products Co., **b, c, d.**
Douglas Microwave Co., Inc., **d.**
Eastern Specialty Co., The, **d.**
Electro Products Laboratories, Inc., **d.**
Electronic Instrument Co., Inc. (EICO), **d.**
FXR, Inc., **d.**
Federal Mfg. & Engrg. Corp., **b.**
First Electronics Corp., The, **b, d.**
Foto-Video Labs., Inc., **d.**
Gardner Laboratory, Inc., **d.**
Good Electronic Corp., **b.**
Gordon Enterprises, **c, d.**
Green Recitfier Co., **d.**
Harco Labs., Inc., **d.**
E. Vernon Hill & Co., **d.**
Hufford Corp., The, **d.**
Hycon Mfg. Co., **d.**
Kahn & Co., Inc., **d.**
Kaiser Aircraft & Electronics, Div.-Kaiser Industries Corp., **d.**
Koehler Aircraft Products Co., **b.**
Land-Air Inc., **a.**
Lear, Inc., **d.**
Lear, Inc., Grand Rapids Div., **d.**
W. L. Maxson Corp., The, **b.**
Merz Engrg., Inc., **d.**
Nuclear-Chicago Corp., **a.**
Paco Electronics Co., Inc., **d.**
Parker-Hartford Corp., The, **b.**
Peschel Electronics, Inc., **d.**
Pioneer Industries Div., Almar-York Co. Inc., **d.**

Precise Development Corp., a, d.
Ravenna Metal Products, Div.-Standard Screw Co., d.
Republic Aviation Corp., b.
Republic Mfg. Co., d.
Ryan Aeronautical Co., d.
Seco Mfg. Co., d.
Sel-Rex Corp., d.
Sequoia Wire & Cable Co.-Div.-Mandrel Industries, Inc., d.
Special Projects Lab., Food Machinery & Chemical Corp., d.
Specialty Engrg. & Electronics Co., a thru d.
Squiers Gage Co., d.
Stanley Aviation Corp., d.
State Testing Lab. Inc., d.
Sterling Precision Corp., Instrument Div., d.
Sun Electric Corp., Aeronautical Div., d.
Superex Electronics Corp., b.
Talley Corp., The, b, d.
Telectro Industries Corp., d.
United Aircraft Products, Inc., b, d.
United Mfg. Co., Div., The W. L. Maxson Corp., d.
Variety Aircraft Corp., d.

KLYSTRON TUBE CHECKERS
See CHECKERS, KLYSTRON TUBE

LACQUERS

Ambroid Co. Inc.
Arco Co., The
Bias Labs., Inc.
Cooper Industries, Inc.
Dennis Chemical Co.
Emerson & Cuming, Inc.
Fidelity Chemical Products Corp.
Grant Chemical Co., Inc.
Krylon, Inc.
Maas & Waldstein Co.
Marblette Corp., The
Micro-Circuits Co.
Midland Industrial Finishes Co.
Organic Products Co.
Polymer Corp., The
Thomas Electronics, Inc.
Trio Chemical Works, Inc.
United States Plywood Corp.
Vorac Co., The
Waldom Electronics Inc.

LADDERS, FUELING

Ainslie Corp.
Alad Aluminum Ladder Corp.
American Aeroparts
Ballymore Co.
Barrett-Christie Co.
Bil-Jax Inc.
Colonial Aircraft Corp.
Cromer Mfg. & Engrg., Inc.
Ludwig Honold Mfg. Co.
Mercury Tool & Mfg. Corp.
Opelika Welding, Machine & Supply Inc.
Schaffer Air Industries, Inc.
Skyline Products, Inc.
Thiokol Chemical Corp.
Western Arc Welding, Inc.

LAMINATED SHIMS
See SHIMS, LAMINATED

LAMINATES

Air Logistics Corp.
Allied Plastics Supply Corp.
American Printed Circuits Co., Inc.
American Silver Co.
Carl H. Biggs Co.
Bridgeport Brass Co.
Chemold Co.
Continental Diamond Fibre Corp.
Cordo Chemical Corp.
Crystal-X Corp.
Curtiss-Wright Corp., Research Div.
E. I. Du Pont De Nemours & Co. Inc.
Duralith Corp.
Electrical Insulation Co., Inc.
Emerson Plastics Corp.
Formica Corp.
Franklin Fibre-Lamitex Corp.
General Plastics Corp. of New Jersey
Goodyear Aircraft Corp.
Hardman Tool & Engrg., Co.
Haskelite Mfg. Corp.
Haveg Industries, Inc.
International Resistance Co.
Joclin Mfg. Co.
Jodee Plastics Co.
Johns-Manville
Lamtex Industries, Inc.
Lone Star Plastics Co. Inc.
Thomas J. Long, Inc.
Mica Insulator Div.-Minnesota Mining & Mfg. Co.
Minnesota Mining & Mfg. Co.
Monogram Precision Industries
Narmco Mfg. Co.
National Vulcanized Fibre Co.
New England Laminates Co., Inc.
Northern Plastics Corp.
Panel Engrg. Corp.
Penn Fibre & Specialty Co., Inc.
Plastic Age Sales, Inc.
Raybestos-Manhattan, Inc.
Raybestos-Manhattan, Inc., Pa.
Reinhold Engrg. & Plastics Co.
Republic Aviation Corp.
Rogers Corp.
Milton Ross Metals Co., The
Russell Reinforced Plastics Corp.
St. Regis Paper Co., Panelyte Div.
Sierracin Corp., The
Silicone Insulation, Inc.
Spaulding Fibre Co., Inc.
Standard Metals Corp.
Stevens Products, Inc.
Swedlow Inc.
Taylor Fibre Co.
United States Chemical Milling Corp.
United States Plywood Corp.
United States Rubber Co.
Universal Moulded Products Corp.
Virginia Plak Co.
Western Tool & Mfg. Co., The
Westinghouse Electric Corp.
Zippertubing Co., The

LAMINATIONS, TRANSFORMER

Allegheny Ludlum Steel Corp.
American Printed Circuits Co., Inc.
G-L Electronics Co., Inc.
Johns-Manville
Mica Insulator Div.-Minnesota Mining & Mfg. Co.
Westinghouse Electric Corp., Metals Plant

LAMINATORS, PLASTIC HIGH PRESSURE

Adept Industries Inc.
Allied Plastics Supply Corp.
American Aerophysics Corp.
American Printed Circuits Co., Inc.
Chemold Co.
Collins Engrg. Corp.
Continental Diamond Fibre Corp.
Dayton Aircraft Products, Inc.
Duralith Corp.
Electrical Insulation Co., Inc.
Emeloid Co., Inc., The
Engineered Plastics, Inc.
Farley & Loetscher Mfg. Co., Plastics Div.
Formica Corp.
Franklin Fibre-Lamitex Corp.
Hardman Tool & Engrg. Co.
Haveg Industries, Inc.
Homalite Corp., The
Hull Corp.
Joclin Mfg. Co.
Kerrco Products
Lamtex Industries, Inc.
Lone Star Plastics Co. Inc.
Mica Insulator Div.-Minnesota Mining & Mfg. Co.
Monrovia Aviation Corp.
National Vulcanized Fibre Co.
New England Laminates Co., Inc.
Panel Engrg. Corp.
Perry Plastics, Inc.
Piasecki Aircraft Corp.
Plastic Age Sales, Inc.
Raybestos-Manhattan, Inc.
Raybestos-Manhattan, Inc., Pa.
Republic Aviation Corp.
Rogers Corp.
Milton Ross Metals Co., The
St. Regis Paper Co., Panelyte Div.
Sierracin Corp., The
Spaulding Fibre Co., Inc.
Swedlow Inc.
Taylor Fibre Co.
H. I. Thompson Fiber Glass Co.
United States Chemical Milling Corp.
Universal Moulded Products Corp.
Virginia Electronics Co., Inc.
Virginia Plak Co.

LAMPS, INFRA-RED

Chicago Miniature Lamp Works
Collins Engrg. Corp.
Eagle Electric Mfg. Co. Inc.
Edmund Scientific Co.
Engelhard Industries, Inc.
Fisher Scientific Co.
Kemlite Laboratories, Inc.
Miskella Infra-Red Co., The
Monogram Precision Industries
Radiant Lamp Corp.
Westinghouse Electric Corp.

LAMPS, INSPECTION

A. O. W. Corp.
Blowers Inc.
Chicago Miniature Lamp Works
Collins Engrg. Corp.
Eagle Electric Mfg. Co. Inc.
Ericson Mfg. Co., The
Gordon Enterprises
Mico Instrument Co.
Radiant Lamp Corp.
Shannon Luminous Materials Co.
Strat-O-Seal Mfg. Co.

LAMPS, PROJECTION

Gordon Enterprises
Jones & Lamson Machine Co.
Radiant Lamp Corp.
Sequoia Wire & Cable Co., Div.-Mandrel Industries, Inc.
Westinghouse Electric Corp.

LAMPS, ULTRA-VIOLET

***ULTRA-VIOLET PRODUCTS, INC.**

LANDING AIDS, ELECTRONIC

Belock Instrument Corp.
Bendix Radio Div., Bendix Aviation Corp.
DBM Research Corp.
Dayton Aviation Radio & Equipment Corp.
Electronic Communications, Inc.
Gilfillan Bros. Inc.
Hazeltine Electronics Div.-Hazeltine Corp.
Kemlite Laboratories, Inc.
Land-Air Inc.
Lear, Inc.
Lear, Inc., Grand Rapids Div.
Litton Industries, Maryland Div.
Minneapolis-Honeywell Regulator Co.-Aeronautical Div.
Motorola Inc., Military Electronics Div.
Northrop Corp., The, Nortronics Div.
Philco Corp., Government & Industrial Div.
Raytheon Mfg. Co., Government Equipment Div.
***RHEEM MFG. CO., DEFENSE & TECHNICAL PRODUCTS DIV.**
Thiokol Chemical Corp.
U. S. Science Corp., Div.-Topp Industries, Inc.
Virginia Electronics Co., Inc.
Westinghouse Electric Corp.

LANDING GEAR ASSEMBLIES

***BENDIX PRODUCTS DIV., BENDIX AVIATION CORP.**
Bruce Engrg. Co.
Colonial Aircraft Corp.
Cromer Mfg. & Engrg., Inc.
Electrol Inc.
Holland Hitch Co.
Hydra-Power Corp.
Interstate Engrg. Corp.
Kaiser Aircraft & Electronics, Div.-Kaiser Industries Corp.
Kanarr Corp.
Longren Aircraft Co., Inc.
Mercury Tool & Mfg. Corp.
Nebel Machine Tool Corp.
Newbrook Machine Corp.
Phillips Aviation Co.-Marples Gears
Piasecki Aircraft Corp.
Sargent Engrg. Corp.
Talley Corp., The
United Mfg. Co., The
U. S. Industries, Inc.
Vard Inc.
Western Gear Corp.
Wise Aerodraulics, Inc.

LANDING GEAR RETRACTORS
See RETRACTORS, LANDING GEAR

LANDING GEAR SHOCK ABSORBERS
See SHOCK ABSORBERS, LANDING GEAR

LANDING SYSTEMS, AIRBORNE
See AIRBORNE LANDING SYSTEMS

LANDING SYSTEMS, GROUND
See GROUND LANDING SYSTEMS

LANDING SYSTEMS, INSTRUMENT

American Aeroparts
***AVCO MFG. CORP., CROSLEY DIV.**
Belock Instrument Corp.
Centronix Inc.
Dayton Aviation Radio & Equipment Corp.
Hazeltine Electronics Div.-Hazeltine Corp.
ITT Labs.
ITT-Kellogg
Korda Industries
Land-Air Inc.
Lear, Inc.
Lear, Inc., Grand Rapids Div.
Litton Industries, Maryland Div.
Minneapolis-Honeywell Regulator Co.-Aeronautical Div.
Motorola Inc., Military Electronics Div.
Raytheon Mfg. Co., Government Equipment Div.
Telectro Industries Corp.
U. S. Science Corp., Div.-Topp Industries, Inc.
Westinghouse Electric Corp.

LATCHES

Adams Rite Mfg. Co.
American Aeroparts
Anchor Metal Spinning Co., The
Bud Radio Inc.
Burklyn Co.
Camloc Fastener Corp.
Capital City Mfg. Co.
Components Corp.
Dimco-Gray Co.
Hughes Tool Co., Aircraft Div.
Kaiser Aircraft & Electronics, Div.-Kaiser Industries Corp.
Monogram Precision Industries
National Lock Co.
Reinhold Engrg. & Plastics Co.

Richards-Wilcox Mfg. Co.
Scovill Mfg. Co.
Simmonds Aerocessories, Inc.
Stanley-Judd Div.-The Stanley Works
United States Chemical Milling Corp.
United Supply Co.

LATCHES, BALL
See BALL LATCHES

LATHES, BENCH

American Aeroparts
Barrett-Christie Co.
Clausing Div.-Atlas Press Co.
Hardinge Brothers, Inc.
Carl Hirschmann Co., Inc.
R. K. Leblond Machine Tool Co.
Louis Levin & Son, Inc.
Red Lion Cabinet Co., Redco Tool Div.
Rivett Lathe & Grinder Inc.
Joseph T. Ryerson & Son, Inc.
Stark Tool Co.
Transmares Corp.

LAUNCHERS, AIRBORNE ROCKET

ACF Industries Inc.
Accessory Products Co., Div.-Textron Inc.
Acco Equipment Div., American Chain & Cable Co., Inc.
Aerojet-General Corp.
Aeronca Mfg. Corp.
Aircraft Armaments, Inc.
American Machine & Foundry Co., Government Products Group
American Machine & Foundry Co., Greenwich
Associated Engineers, Inc.
Atlantic Research Corp.
Basic Tool Industries, Inc.
Breeze Corporations, Inc.
Bridgeport Brass Co.
Colonial Aircraft Corp.
Cooper Development Corp., Sub.-Marquardt Aircraft Co.
Diversey Engrg. Co.
Dresser-Ideco Co., Div.-Dresser Industries, Inc.
Emerson Electric Mfg. Co., The, Electronics & Avionics Div.
General Electric Co., Missile & Space Vehicle Dept.
Hoover Electric Co.
Horkey-Moore Associates
Industrial Tools Mfg. Corp., Sub.-Pendleton Tool Industries, Inc.
Intercontinental Mfg. Co., Inc.
Interstate Engrg. Corp.
Jack & Heintz, Inc.
Kaiser Aircraft & Electronics, Div.-Kaiser Industries Corp.
M. W. Kellogg Co., The
Land-Air Inc.
Longren Aircraft Co., Inc.
Mercury Tool & Mfg. Corp.
***MIRAX CHEMICAL PRODUCTS CORP., ELECTRO-MECHANICAL PRODUCTS DIV.**
Monogram Precision Industries
Northrop Corp., The, Nortronics Div.
Nuclear Products-Erco Div.-ACF Industries, Inc.
Oliver Corp., The
Piasecki Aircraft Corp.
Pioneer Tool & Engrg. Co.
Republic Aviation Corp.
***RHEEM MFG. CO., DEFENSE & TECHNICAL PRODUCTS DIV.**
Royal Industries, Inc.
Sargent Engrg. Corp.
Singer Mfg. Co., The, Military Products Div.
Stainless Inc.
Stanley Aviation Corp.
Talley Corp., The
Thiokol Chemical Corp.
U. S. Industries, Inc.
Universal Metal Products Inc.
Vard Inc.
Washington Aluminum Co., Inc.
Wayne Pump Co., The, Div.-Symington Wayne Corp.
Western Gear Corp.

LAUNCHERS, GROUND BASED MISSILES

ACF Industries Inc.
Accessory Products Co., Div.-Textron Inc.
Acco Equipment Div., American Chain & Cable Co., Inc.
Aerojet-General Corp.
Aerolab Development Co.
Aeronca Mfg. Co.
Air Logistics Corp.
Aircraft Armaments, Inc.
Alco Products, Inc.
American Car & Foundry, Div.-ACF Industries, Inc.
American Machine & Foundry Co., Government Products Group
American Machine & Foundry Co., Greenwich
Applied Design Co.
Associated Engineers, Inc.
Atlantic Research Corp.
Austin-Western, Constr. Equip. Div.,-Baldwin-Lima-Hamilton Corp.
Baker Industrial Trucks, Div.-Otis Elevator Co.
Basic Tool Industries, Inc.
Beaver Precision Products Inc.
E. W. Bliss Co.
Bowser, Inc., Defense Dept.
Breeze Corporations, Inc.
Brown Engrg. Co., Inc.
C. B. Christiansen Co.
Cleveland Pneumatic Industries, Inc.
Conco Engrg. Works
Consolidated Diesel Electric Corp., Western Div.
Cooper Development Corp., Sub.-Marquardt Aircraft Co.
Cromer Mfg. & Engrg., Inc.
Curtiss-Wright Corp., Santa Barbara Div.
Diversey Engrg. Co.
Dresser Industries, Inc.
Dresser Mfg. Div., Dresser Industries, Inc.
Dresser-Ideco Co., Div.-Dresser Industries, Inc.
Dynamic Devices, Inc.
Emerson Electric Mfg. Co., The, Electronics & Avionics Div.
FWD Corp.
Fairchild Astrionics Div., Fairchild Engine & Airplane Corp.
Farrel Birmingham Co. Inc.
Fruehauf Trailer Co., Military Equipment Div.
Fulton-Irgon Corp., The
G. W. Galloway Co.
General Electric Co., Missile & Space Vehicle Dept.
Goodyear Aircraft Corp.
Hardman Tool & Engrg. Co.
Ludwig Honold Mfg. Co.
Hoover Electric Co.
Horkey-Moore Associates
Hussmann Aircraft Div.
ITT Labs.
Industrial Tools Mfg. Corp., Sub.-Pendleton Tool Industries, Inc.
Ingersoll Kalamazoo Div., Borg-Warner Corp.
Intercontinental Mfg. Co., Inc.
Interstate Engrg. Corp.
Jack & Heintz, Inc.
Kaiser Aircraft & Electronics, Div.-Kaiser Industries Corp.
M. W. Kellogg Co., The
Kelsey-Hayes Co.
Kemp Aero Products
Land-Air Inc.
Longren Aircraft Co., Inc.
Marquardt Aircraft Co.
W. L. Maxson Corp., The
Mc Dowell-Wellman Companies, The
Mechanics Universal Joint Div., Borg-Warner Corp.
***MIRAX CHEMICAL PRODUCTS CORP., ELECTRO-MECHANICAL PRODUCTS DIV.**
Monogram Precision Industries
Newbrook Machine Corp.
Northrop Corp.
Northrop Corp., The, Nortronics Div.
Opelika Welding, Machine & Supply Inc.
Ordnance Div.-Food Machinery & Chemical Corp.
Pacific Coast Engrg. Co.
Philips & Davies Inc.
Pioneer Tool & Engrg. Co.
Pittsburgh-Des Moines Steel Co.
Portland Copper & Tank Works Inc.
Project Fabrication Corp.
Ravenna Metal Products, Div.-Standard Screw Co.
Red Lion Cabinet Co., Redco Tool Div.
Regent Jack Mfg. Co., Inc.
Republic Aviation Corp.
***RHEEM MFG. CO., DEFENSE & TECHNICAL PRODUCTS DIV.**
Royal Industries, Inc.
Sancor Corp.
Sargent Engrg. Corp.
Space Corp.
Stainless Inc.
Stearns-Roger Mfg. Co.
Talley Corp., The
Tapco Group, Thompson-Ramo-Wooldridge Inc.
Thiokol Chemical Corp.
Trailmobile Inc.
Turbo Products, Inc.
Twin Coach Co., Aircraft-Missiles
U. S. Industries, Inc.
Van Zelm Associates, Inc.
Vard Inc.
Washington Aluminum Co., Inc.
Waste King Corp., Technical Products Div.
Wayne Pump Co., The, Div.-Symington Wayne Corp.
Western Gear Corp.
Westinghouse Electric Corp.
Wheland Co., The
Wickfield, Inc.

LAUNCHING DEVICES, ROCKET
See ROCKET LAUNCHING DEVICES

LAUNCHING PLATFORMS

Acco Equipment Div., American Chain & Cable Co., Inc.
Aerojet-General Corp.
Air Logistics Corp.
Alco Products, Inc.
***ALUMINUM SAFETY PRODUCTS, INC.**
American Car & Foundry, Div.-ACF Industries, Inc.
American Machine & Foundry Co., Government Products Group
American Machine & Foundry Co., Greenwich
Astronautics Engrg. Co.
Basic Tool Industries, Inc.
Beaver Precision Products Inc.
E. W. Bliss Co.
Chicago Bridge & Iron Co.
Conco Engrg. Works
Cooper Development Corp., Sub.-Marquardt Aircraft Co.
Crane Carrier Corp.
Cromer Mfg. & Engrg., Inc.
Dresser Industries, Inc.
Dresser-Ideco Co., Div.-Dresser Industries, Inc.
Emerson Electric Mfg. Co., The, Electronics & Avionics Div.
FWD Corp.
Fruehauf Trailer Co., Military Equipment Div.
G. W. Galloway Co.
Hardman Tool & Engrg. Co.
Horkey-Moore Associates
Hufford Corp., The
ITT Labs.
Industrial Tools Mfg. Corp., Sub.-Pendleton Tool Industries, Inc.
Jack & Heintz, Inc.
Kaiser Aircraft & Electronics, Div.-Kaiser Industries Corp.
Kemp Aero Products
Longren Aircraft Co., Inc.
Monogram Precision Industries
Newbrook Machine Corp.
Northrop Corp.
Opelika Welding, Machine & Supply Inc.
Pacific Coast Engrg. Co.
Pioneer Tool & Engrg. Co.
Pittsburgh-Des Moines Steel Co.
Portland Copper & Tank Works Inc.
Project Fabrication Corp.
Red Lion Cabinet Co., Redco Tool Div.
Regent Jack Mfg. Co., Inc.
Royal Industries, Inc.
Sancor Corp.
Space Corp.
Stainless Inc.
Stearns-Roger Mfg. Co.
Thiokol Chemical Corp.
Turbo Products, Inc.
Twin Coach Co., Aircraft-Missiles
U. S. Industries, Inc.
Van Zelm Associates, Inc.
Washington Aluminum Co., Inc.
Wayne Pump Co., The, Div.-Symington Wayne Corp.
***R. D. WERNER CO., INC.**
Western Gear Corp.
Wheland Co., The

LEAD FOIL
See FOIL, LEAD

LEAD SHIELDS
See SHIELDS, LEAD

LEADS, TEST

Aerolite Electronics Corp.
Anchor Specialty Mfg. Co. Inc.
Birnbach Radio Co., Inc.
Bud Radio Inc.
Cable Electric Products Inc.
Devcon Corp.
Double E Products Co.
Eastern Specialty Co., The
Electro-Tech Equipment Co.
First Electronics Corp., The
Hallett Mfg., Co.
Keystone Electronics Corp.
National Electronics
Paul Nurches Co.
Paco Electronics Co., Inc.
Paraplegics Mfg. Co., Inc.
Pomona Electronics Co., Inc.
Precision Apparatus Co., Inc.
Stanley-Judd Div.-The Stanley Works
Thomas Electronics, Inc.
Western International Co.
Westwood Cable Corp.

LEATHER HANDLES
See HANDLES, LEATHER

LENSES
a. Inspection
b. Motion Picture
c. Optical
d. RF
e. Zoom

American Optical Co., Instrument Div.,a, c
Atlantic Research Corp., c
Semon Bache & Co., a, b, c
***BAUSCH & LOMB OPTICAL CO., a, b, c**
Bell & Howell Co., a thru e
Brooks & Perkins, Inc., d
Buhl Optical Co., a, b, c
Burke & James Inc., a, b, c
Camera Mart Inc., The, b, c, e
Cameraflex Corp., b, c
DBM Research Corp., d
Davidson Mfg., Co., Inc., c
Dell Optics Co., Ltd., a, b, c, e
Diamond Antenna & Microwave Corp., d
Eastman Kodak Co., a, b, c
Edmund Scientific Co.
***ELECTROSNAP CORP., c**
Elgeet Optical Co., Inc., b, c
Emerson & Cuming, Inc., d
J. W. Fecker, Inc., a thru d

Gaertner Scientific Corp., The, c.
General Scientific Equipment Co., a.
Gordon Enterprises, a thru e.
Hayward Scientific Glass Corp., a, b, c.
Jones & Lamson Machine Co., c.
Kollmorgen Optical Corp., b, c.
Kollsman Instrument Corp., Sub.-Standard Coil Products Co. Inc., c.
Lancaster Glass Corp., c.
McMillan Industrial Corp., d.
Meridian Metalcraft, Inc., d.
Monogram Precision Industries, c.
Northrop Corp., c, d, e.
Northrop Corp., The, Nortronics Div., c, d.
O & S Research, Inc., c.
Pacific Optical Corp., a thru e.
Pacific Universal Products Corp., c.
Perkin-Elmer Corp., a, c, e.
Republic Lens Co. Inc., a, c, d.
Seiscor Mfg. Co., c.
Sperry Microwave Electronics Co., Div.-Sperry Rand Corp., d.
Sterling Glass Corp., a.
Sterling-Howard Corp., b, c, e.
Traid Corp., b, c, e.
Universal Unlimited, Inc., c.
Valpey Crystal Corp., c.
Wollensak Optical Co., a thru e.
Zenith Optical Laboratory, c.
Zoomar Inc., c, e.

LENSES, PRISMS, MIRRORS

American Cystoscope Makers, Inc.
American Instrument Co., Inc.
American Optical Co., Instrument Div.
Atlantic Research Corp.
Semon Bache & Co.
***BAUSCH & LOMB OPTICAL CO.**
Bell & Howell Co.
Buhl Optical Co.
Burke & James Inc.
Camera Mart Inc., The
Chicago Aerial Industries, Inc.
Corning Glass Works
Davidson Mfg. Co., Inc.
Eastman Kodak Co.
Edmund Scientific Co.
***ELECTROSNAP CORP.**
***ENGIS EQUIPMENT CO.**
J. W. Fecker, Inc.
Fish-Schurman Corp.
Gaertner Scientific Corp., The
Gordon Enterprises
Hayward Scientific Glass Corp.
Kollmorgen Optical Corp.
Kollsman Instrument Corp., Sub.-Standard Coil Products Co. Inc.
Kopp Glass, Inc.
Lancaster Glass Corp.
Liberty Mirror Div., Libbey-Owens-Ford Glass Co.
Minneapolis-Honeywell Regulator Co., Ordnance Div.
Monogram Precision Industries
National Spectrographic Labs., Inc.
Northrop Corp.
Northrop Corp., The, Nortronics Div.
O & S Research, Inc.
Pacific Optical Corp.
Pacific Universal Products Corp.
Perkin-Elmer Corp.
Republic Lens Co. Inc.
Seiscor Mfg. Co.
Singer Mfg. Co., The, Military Products Div.
Sterling Glass Corp.
Traid Corp.
Valpey Crystal Corp.
Wollensak Optical Co.
Zenith Optical Laboratory
Zoomar Inc.

LEVERS

***BALCRANK, INC., MACHINE TOOL DIV.**

LIGHT SUPPLIES

Burke & James Inc.
Cooper Industries, Inc.
Edgerton, Germeshausen & Grier, Inc.
Grimes Mfg. Co.
Soderberg Mfg. Co., Inc.
Technical Apparatus Builders

LIGHTING, COLD CATHODE

Acme Electric Corp.
American Printed Circuits Co., Inc.
Crouse-Hinds Co.
Kemlite Laboratories, Inc.
Julian A. McDermott Corp.

LIGHTING CONTROL CONSOLES
See CONSOLES, LIGHTING CONTROL

LIGHTING EQUIPMENT, EMERGENCY

Anchor Metal Spinning Co., The
Consolidated Diesel Electric Corp.
Consolidated Diesel Electric Corp., Western Div.
Cooper Development Corp., Sub.-Marquardt Aircraft Co.
Exide Industrial Div.-The Electric Storage Battery Co.
General Scientific Equipment Co.
Grimes Mfg. Co.
International Fermont Machinery Co., Inc.
Kemlite Laboratories, Inc.
Julian A. McDermott Corp.
***MOTOR GENERATOR CORP.**
D. W. Onan & Sons Inc.
Soderberg Mfg. Co., Inc.
Terado Co.
Wallace & Tiernan Inc.
Wincharger Corp., Sub.-Zenith Radio Corp.
Winpower Mfg. Co.

LIGHTING EQUIPMENT, PRESET PANELS

American Printed Circuits Co., Inc.
Anchor Metal Spinning Co., The
***ELECTROSNAP CORP.**
Kilgen Aircraft Div.
Korry Mfg. Co.
Mullenbach Div.-Electric Machinery Mfg. Co.
Panel Engrg. Corp.
Radar Relay, Inc.
Soderberg Mfg. Co., Inc.
Sun Dial Corp.

LIGHTING EQUIPMENT, TOWER

Crouse-Hinds Co.
General Electric Co., Apparatus Sales Div.
Hughey & Phillips, Inc.
Kemlite Laboratories, Inc.
Julian A. McDermott Corp.
Soderberg Mfg. Co., Inc.
Specialty Engrg. & Electronics Co.
Westinghouse Electric Corp.
Wind Turbine Co.

LIGHTNING ARRESTERS

Airtron Inc., Div.-Litton Industries
American Missile Products Co., Inc.
Dale Products, Inc.
Dayton Aircraft Products, Inc.
Garde Mfg. Co.
General Electric Co., Apparatus Sales Div.
General Electric Co., Insulator Dept.
Westinghouse Electric Corp.

LIGHTS

a. Arc
b. Black
c. Dial, Panel & Pilot
d. Flood
e. Fluorescent
f. Glow
g. Incandescent
h. Indicator
i. Jewel Pilot
j. Miniature
k. Neon Test
l. Photoelectric Source
m. Signal
n. Spot
o. Stroboscopic Source

A. O. W. Corp., e, g.
Aerolab Development Co., a.
Aerolite Electronics Corp., c, h thru k, m.
Alden Products Co., c, h, i.
American Machine & Foundry Co., Greenwich, c, h, j.
American Printed Circuits Co., Inc., c, f, h thru k, m.
Amglo Corp., f, m, a.
Anchor Metal Spinning Co., The, d, m, n.
Associated Engrg. & Mfg. Corp., g.
Bell & Howell Co., l.
Carl H. Biggs Co., e.
Brunswick Instruments, k.
Burke & James Inc., a.
Carling Electric, Inc., c.
Chicago Miniature Lamp Works, b, c, f, g, h, j thru m, o.
Cooper Development Corp., Sub.-Marquardt Aircraft Co., a, d, n.
Crouse-Hinds Co., d, m, n.
Davenport Mfg. Co., a.
Day-Ray Products, Inc., e.
Dialight Corp., c, f thru k, m.
Dryomatic Corp., m.
Eagle Electric Mfg. Co. Inc., c, g, k.
Eder Instrument Co., Inc., i.
Edgerton, Germeshausen & Grier, Inc., a.
Eldema Corp., c, f thru k.
***ELECTROSNAP CORP.**, c, g, h, j.
Electronic Control Corp., l.
Etched Products Corp., c.
Ferranti Electric Inc., f, a.
General Electric Co., Apparatus Sales Div., c, d, e, i, l.
Gordon Enterprises, a, d, f, m, n.
Graflex Inc., a.
Green Rectifier Co., h, i.
Grimes Mfg. Co., c, d, e, g thru j, m, n.
Herzog Miniature Lamp Works, Inc., c, g, h, j, l, m.
Hudson Lamp Co., f, g, j.
Kemlite Laboratories, Inc., b, a.
Korry Mfg. Co., c, e, h, i, j, m.
Leecraft Mfg. Co., Inc., c, g, h, j, k, m.
Luminous Resins Inc., b.
Magnaflux Corp., b.
Marco Industries Co., c, f, h, i, j.
Master Specialties Co., h.
Menlo Research Lab., e.
Miller Dial & Nameplate Co., c, e, f, g.
Minneapolis-Honeywell Regulator Co.-Aeronautical Div., a.
National Pneumatic Co., Inc., Holtzer-Cabot Divs., c.
Oxford Components, Inc., c, f, g, h, j, k.
Penn Keystone Corp., h.
Photobell Co., Inc., k.
Photomation, Inc., l.
Plasteck, Inc., c, g, j.
Pyle-National Co., The, d.
Q. O. S. Corp., b.
Radar Relay, Inc., g.
Schauer Mfg. Corp., k.
Shannon Luminous Materials Co., b.
Signalite Inc., f.
Sloan Co., The, h, j.
Soderberg Mfg. Co., Inc., b thru h, m, n.
Sperry Piedmont Co.-Div.-Sperry Rand Corp., n.
Ucinite Co., The, Div.-United-Carr Fastener Corp., c, h, i, j.
***ULTRA-VIOLET PRODUCTS, INC.**, b.
Westinghouse Electric Corp., d, e, g, h, j.
Westinghouse Electric Corp., Lamp Div., a thru e.

LINERS

a. Can
b. Combustion Chamber
c. Combustion Chamber, Gas
d. Turbine Engine
e. Metal
f. Rocket Engine

A & P Metal Products Mfg. Corp., e.
Aerojet-General Corp., f.
Aerolab Development Co., f.
Aeronca Mfg. Corp., b thru e.
Allied Plastics Supply Corp., a.
American Aluminum Co., a, e.
American Rocket Co., f.
Anchor metal Spinning Co., The, e.
Atlantic Research Corp., f.
B. H. Aircraft Co., Inc., e.
Bemis Brothers Bag Co., a.
Benson Mfg., Co., The, b, e.
J. Bishop & Co., Platinum Works, f.
Borden Chemical Co., a.
Bridgeport Brass Co., a, e.
Brooks & Perkins, Inc., e.
Calfibe Co., Inc., b.
Carborundum Co., Refractories Div., b.
Christie Machine Works, b, d, f.
Cooper Development Corp., Sub.-Marquardt Aircraft Co., b, c, e, f.
Cornell Deep Drawing Co., Div.-Lanes Industries Corp., a, e.
Crystal-X Corp., a.
Curtiss-Wright Corp., Research Div., b, c, f.
Curtiss-Wright Corp., Wright Aeronautical Div., a thru f.
Diversey Engrg. Co., e, f.
Double E Products Co., a.
Dresser Mfg. Div., Dresser Industries, Inc., b thru f.
Dunbar-Kapple Inc.-Aircraft Components Div., e.
Dynamic Devices, Inc., f.
Dyna-Therm Chemical Corp., a thru f.
Emerson Plastics Corp., a.
Farwell Metal Fabricating, e.
Finn Aeronautical Div., T. R. Finn & Co., Inc., b, e, f.
***FLEXONICS CORP., AERONAUTICAL DIV.**
General American Transportation Corp., a.
Haveg Industries, Inc., a, b, c, f.
Hewitt-Robins, Inc., b.
Houston Fearless Corp.
Hupp Aviation Co., a thru d, f.
***JANITROL AIRCRAFT DIV., SURFACE COMBUSTION CORP.**, b, d.
Joclin Mfg. Co., f.
Johns-Manville
Kaiser Metal Products, Inc.-Fleetwings Div., d.
Kanarr Corp., f.
C. B. Kaupp & Sons, Inc., b, d.
M. W. Kellogg Co., The, b, e, f.
Kling Metal Spinning & Stamping Co., e.
***LAVELLE AIRCRAFT CORP.**, b, d, e.
Mercury Tool & Mfg. Corp., e.
***MIRAX CHEMICAL PRODUCTS CORP., METAL CONTAINER DIV.**, a, e.
Monogram Precision Industries, a, c.
National Beryllia Corp., b, c, f.
Norton Co., b.
Penn-Michigan Mfg. Corp., b, c.
Plastic-Age Sales, Inc., b.
Portland Copper & Tank Works Inc., b thru f.
Precision Sheet Metal, Inc., a, e.
Pressed Steel Tank Co., b, c, e, f.
Reaction Motors Div., Thiokol Chem. Corp., b, f.
Reinhold Engrg. & Plastics Co., b, c, f.
Rimak, Inc., e.
C. F. Roark Welding & Engrg. Co., Inc., b, c, d, f.
Ryan Aeronautical Co., a thru e.
Smith-Morris Corp., a thru e.
Solar Aircraft Co., b, e, f.
Stackpole Carbon Co., f.
Stainless Inc., e.
Stainless Steel Products, Inc., b thru e.
Standard-Thomson Corp., Clifford Mfg., Co. Div., a, c, e, f.
Swedlow Inc., b, f.
Thermal Refractories Corp., b.
H. I. Thompson Fiber Glass Co., b, f.
Topper Mfg. Co., Inc., b, f.
C. W. Torngren Co., Inc., a.

Turbo Products, Inc., d.
Twigg Industries, a thru e.
United States Rubber Co., f.
Westinghouse Electric Corp., d.
Young Development Div., Hercules Powder Co., b, c.

LINES, SLOTTED

Aircom Inc.
Airmcom Inc. of New Jersey
Alford Mfg. Co.
California Technical Industries, Div.-Textron Inc.
Coaxial Connector Co. Inc.
Demornay-Bonardi
Diamond Antenna & Microwave Corp.
Douglas Microwave Co., Inc.
Engrg. Associates
FXR, Inc.
Gabriel Co., The, Gabriel Electronics Div.
Hallicrafters
Hewlett-Packard Co.
ITT Labs.
Meridian Metalcraft, Inc.
Narda Microwave Corp., The
Omega Labs., Inc.
Polytechnic Research & Development Co., Inc.
Rohm & Haas Co., Redstone Arsenal Research Div.
Sage Labs., Inc.
Telectro Industries Corp.
Telerad Mfg. Corp.
Wilks Precision Instrument Co., Inc.
Wright Engrg. Co.

LINKS, ANTENNA

Ainslie Corp.
Airtron Inc., Div.-Litton Industries
Automation Dynamics Corp.
Diamond Antenna & Microwave Corp.
Gabriel Co., The, Gabriel Electronics Div.
Hallicrafters
Janco Corp.
Mark Products Co.
Radiatronics, Inc.
Stanley-Judd Div.-The Stanley Works
Thiokol Chemical Corp.

LIQUID BINDERS
See BINDERS, LIQUID

LIQUID FUELED MISSILE BOOSTERS
See BOOSTERS, MISSILE, LIQUID FUELED

LIQUID FUELS

Aerojet-General Corp.
***ALLIED CHEMICAL CORP., GENERAL CHEMICAL DIV.**
Allied Chemical Corp., Nitrogen Div.
***AMERICAN POTASH & CHEMICAL CORP.**
Ashland Oil & Refining Co.
Callery Chemical Co.
Food Machinery & Chemical Corp.
Liquidometer Corp., The
Matheson Co., Inc., The
Olin Mathieson Chemical Corp., Energy Div.
Pennsalt Chemicals Corp.
Rohm & Haas Co., Redstone Arsenal Research Div.
Shell Chemical Corp., Industrial Chemicals Div.
Special Projects Lab., Food Machinery & Chemical Corp.
Trimount Instrument Co.

LIQUID LEVEL MEASURING DEVICES

Aerojet-General Corp.
Aeroscience, Inc.
Aro Equipment Corp.
Atlantic Instrument Corp., Sub.-American Electronics, Inc.
Automation Products, Inc.
Avien, Inc.
Bendix Aviation Corp., Pioneer-Central Div.
Bogue Electric Mfg., Co.
Boston Auto Gage Co., The
Bowser, Inc., Defense Dept.
Breeze Corporations, Inc.
Bristol Co., The
Brooks Rotameter Co.
Conoflow Corp.
Dynametrics Corp.
Dynamic Controls Corp.
Electric Auto-Lite Co., The
Fischer & Porter Co.
Fisher Governor Co.
Fisher Research Lab., Inc.
General Electric Co., Apparatus Sales Div.
General Electric Co., X-Ray Dept.
Haledy Electronics Co.
Hughes Tool Co., Aircraft Div.
Land-Air Inc.
***WALLACE O. LEONARD, INC.**
Liquidometer Corp., The
Magnetrol, Inc.
Mason-Neilan
Minneapolis-Honeywell Regulator Co., Aeronautical Div.
Minneapolis-Honeywell Regulator Co., Industrial Div.
Minneapolis-Honeywell Regulator Co., Industrial Product Group
National Electronics.
Revere Corp. of America
Royal Industries, Inc.
Simmonds Aerocessories, Inc.
Space Corp.
Sterns-Roger Mfg. Co.
Trans-Sonics, Inc.
Trimount Instrument Co.
United Aircraft Products, Inc.
Victory Engrg. Corp.
Wallace & Tiernan Inc.

LIQUID NITROGEN

Air Reduction Sales Co., Div.-Air Reduction Co., Inc.
***AIRESEARCH MFG. CO., DIV.-THE GARRETT CORP.**
Hofman Labs., Inc.
Linde Co., Div.-Union Carbide Corp.
Liquidometer Corp., The
Sterns-Roger Mfg. Co.
Trionics Corp.

LIQUID OXYGEN

Air Reduction Sales Co., Div.-Air Reduction Co., Inc.
***AIRESEARCH MFG. CO., DIV.-THE GARRETT CORP.**
Linde Co., Div.-Union Carbide Corp.
Liquidometer Corp., The
Sterns-Roger Mfg. Co.

LIQUID OXYGEN VAPORIZERS
See VAPORIZERS, LIQUID OXYGEN

LIQUID PROPELLANTS, ROCKET
See PROPELLANTS, LIQUID, ROCKET

LOCATORS
a. Cable & Line Fault
b. Metal Flaw
c. Non-Metal Flaw
d. Open-Short

Associated Research, Inc., a.
Barker Sales Co., a.
James G. Biddle Co., a.
Branson Instruments, Inc., b, c.
Consolidated Diesel Electric Corp., a, d.
Curtiss-Wright Corp., Research Div., b, c.
Davenport Mfg. Co., a.
J. W. Dice Co., b.
Dit-Mco, Inc., Electronics Div., a, c.
Fisher Research Lab., Inc., a.
Leeds & Northrup Co., a.
Magnaflux Corp., b, c.
Menlo Research Lab., b.
Peschel Electronics, Inc., a, d.
Shallcross Mfg. Co., a.
Sorensen & Co., Inc., a.
Tobe Deutschmann Corp., a.

LOCK BOLTS
See BOLTS, LOCK

LOCKNUTS

Abbott Screw & Mfg. Co.
All Specs Corp.
Barrett-Christie Co.
Best Aircraft Corp.
Calinoy-Div.-Illinois Tool Works
Capital City Mfg. Co.
Century Fasteners Corp.
Cooper Industries, Inc.
Corbin Products Div.
R. C. Dudek & Co.
Eaton Mfg. Co., Reliance Div.
Elastic Stop Nut Corp. of America
Eljay Corp.
Federal Screw Products Inc.
Hi-Shear Rivet Tool Co.
Kaynar Mfg. Co., Inc.
Lamson & Sessions Co., The
National Screw & Mfg. Co., The
PIC Design Corp., Sub.-Benrus Watch Co., Inc.
Rattan Mfg. Co., The
Republic Steel Corp.
SKF Industries, Inc.
Standard Locknut & Lockwasher Inc.
Standard Pressed Steel Co.
***TOWNSEND CO., CHERRY RIVET DIV.**
United Supply Co.
Waltham Precision Instrument Co.
Waterbury Pressed Metal Co., The

LOCKS
a. Dial
b. General
c. Hydraulic
d. Shaft

Adams Rite Mfg. Co., b.
Adel Precision Products of California, Div.-General Metals Corp., c.
Amatom Electronic Hardware Co. Inc., a, d.
Birnbach Radio Co., Inc., a, d.
Bud Radio Inc., a.
Cambridge Thermionic Corp., a.
Goe Engrg. Co., d.
Haskel Engrg. & Supply Co., c.
E. F. Johnson Co., a.
Kemp Aero Products, c.
Keystone Electronics Corp., a, d.
Litton Industries, U.S. Engrg. Co., Div., a.
National Lock Co., a, b.
Omega Electronic Corp., d.
PIC Design Corp., Sub.-Benrus Watch Co., Inc., a, d.
Rinco, Inc., a, d.
Ronson Hydraulic Units Corp., c.
Waldom Electronics Inc., a, d.
Yale & Towne Mfg. Co., The,-Government Defense Products Div., a, b.

LORAN SYSTEMS

Bendix Radio Div., Bendix Aviation Corp.
General Communication Co.
Hazeltine Electronics Div.-Hazeltine Corp.
ITT Labs.
Jansky & Bailey, Inc.
W. L. Maxson Corp., The
Philco Corp., Government & Industrial Div.
Piasecki Aircraft Corp.
Polarad Electronics Corp.
Telectro Industries Corp.

LOW TEMPERATURE DISCHARGE EQUIPMENT
See DISCHARGE EQUIPMENT, LOW TEMPERATURE

LUBRICANTS

Acheson Colloids Co., Div.-Acheson Industries, Inc.
All Specs Corp.
Alpha Molykote Corp., The
***AMERICAN POTASH & CHEMICAL CORP.**
Anderson Oil & Chemical Co., Inc.
Armite Labs.
George Basch Co., The
Caig Labs.
Curtiss-Wright Corp., Research Div.
Delta Chemical Works, Inc.
***DOW CORNING CORP.**
Ed-Berl Products, Inc.
Esso Standard Oil Co.
Everlube Corp.
Grafo Colloids Corp.
Hamilton Watch Co.-Industrial Div.
E. F. Houghton & Co.
Kano Labs.
Kelite Corp.
Lockrey Co., The
Minnesota Mining & Mfg. Co.
New York & New Jersey Lubricant Co.
Protective Coatings, Inc.
Quietrole Co.
Silicones Div.-Union Carbide Corp.
G. W. Smith & Sons, Inc.
Special Projects Lab., Food Machinery & Chemical Corp.
Topper Mfg. Co., Inc.

LUBRICATING DEVICES

***BALCRANK INC., MACHINE TOOL DIV.**
Curtiss-Wright Corp., Research Div.
Gardner-Denver Co.
Gits Brothers Mfg. Co.
Gray Co., Inc.
Hannifin Co., Div.-Parker-Hannifin Corp.
Hills-Mc Canna Co.
United Aircraft Products, Inc.
Wesrep Corp.

LUG SWAGGERS, TERMINAL
See TERMINAL LUG SWAGGERS

LUGS

AMP Inc.
Accurate Electronics Corp., Dept. D
Alac, Inc.
Amatom Electronic Hardware Co. Inc.
American Aeroparts
Best Aircraft Corp.
Birnbach Radio Co., Inc.
Cambridge Thermionic Corp.
Century Fasteners Corp.
Dalmore Corp.
Dante Electric Mfg. Co.
Emmco Plastic Fabricators - Div.-E. M. McCarthy Machine Co.
Federal Screw Products Inc.
Goe Engrg. Co.
Hobson Brothers, Inc.
Keystone Electronics Corp.
Kulka Electric Corp.
Malco Mfg. Co.
Mercury Tool & Mfg. Corp.
Sealectric Switch & Relay Corp.
Sinclair Mfg. Co.
Stanley-Judd Div.-The Stanley Works
Thompson-Bremer & Co.
Waldom Electronics Inc.
Zierick Mfg. Corp.

LUGS, CABLE-ELECTRIC

AMP Inc.
American Aeroparts
Best Aircraft Corp.
Birnbach Radio Co., Inc.
Burndy Corp., Omaton Div.
Century Fasteners Corp.
Dante Electric Mfg. Co.
Electric Auto-Lite Co., The
Emmco Plastic Fabricators - Div.-E. M. McCarthy Machine Co.
Hallett Mfg., Co.
Keystone Electronics Corp.
C. Sjoberg & Son
Stanley-Judd Div.-The Stanley Works

Waldom Electronics Inc.
Zierick Mfg. Corp.

MACH LIMIT SWITCHES

Aerotec Corp., The
Bendix Aviation Corp., Pioneer-Central Div.
Cole Electric Co.
Consolidated Controls Corp.
Consolidated Diesel Electric Corp.
Control Engrg. Co., Div. Jervis B. Webb Co.
Cooper Development Corp., Sub.-Marquardt Aircraft Co.
Crystal-X Corp.
Curtiss-Wright Electronics Div., IMI Branch
Cutler-Hammer Inc.
Donner Scientific Co.
***ELECTROSNAP CORP.**
G. M. Giannini & Co., Inc.
Kollsman Instrument Corp., Sub.-Standard Coil Products Co. Inc.
***WALLACE O. LEONARD, INC.**
Marquardt Aircraft Co.
Minneapolis-Honeywell Regulator Co.-Aeronautical Div.
Sealectric Switch & Relay Corp.
Servomechanisms, Inc.
Specialties, Inc.
U. S. Science Corp., Div.-Topp Industries, Inc.
Waste King Corp., Technical Products Div.

MACHINE PARTS, HIGH PRECISION

***LAVEZZI MACHINE WORKS**

MACHINE PRODUCTS SCREW
See SCREW, MACHINE PRODUCTS

MACHINES

a. Abrasive Cutting
b. Air Conditioning
c. Balancing
d. Bending
e. Blueprint
f. Capacitor Manufacturing
g. Cleaning
h. Coil Winding
i. Counting
j. Crystal Manufacturing & Finishing
k. Cutting
l. Diecasting
m. Electric Soldering
n. Electron Tube
o. Electronic Balancing
p. Electronic Transcribing
q. Engraving & Profiling
r. Forming
s. Glass Working
t. Hermetic Sealing
u. Impregnating
v. Lamination Stacking
w. Marking
x. Metal Forming
y. Modular & Automatic Assembly
z. Photocopy & Whiteprint
a1. Plastic Press
b1. Riveting
c1. Shock Testing
d1. Soldering
e1. Tube Manufacturing
f1. Vibration Fatigue Testing
g1. Weighing
h1. Wire Stripping

ACF Industries Inc., x, b-1.
A&P Metal Products Mfg. Corp., x.
Acromark Co., The, q, o-1.
Adept Industries Inc., w.
Aircraft Tools, Inc., b-1.
***AIRESEARCH MFG. CO., DIV.-THE GARRETT CORP.**, b.
All American Tool & Mfg. Co., f-1.
Allen Tool Corp.
Allied Research Products, Inc., g.
Alloys Unlimited Inc., d-1.
American Electronics, Inc., Taller & Cooper Div., g-1.
American Instrument Co., Inc., a.
American Machine & Foundry Co., Government Products Group, h, l, y, g-1.
American Machine & Foundry Co., Greenwich, h, u.
American Optical Co., Instrument Div., s.
R. B. Annis Co., c, o.
Artos Engrg. Co., k, w, h-1.
Associated American Winding Co., Inc., f, h.
Associated Engrg. & Mfg. Corp., n, s, t, e-1.
Associated Engineers, Inc., y.
***ASSOCIATED TESTING LABS., INC.**, c-1, f-1.
Astravac Corp., j, m, v, d-1.
Atlantic Instrument Corp., Sub.-American Electronics, Inc., x.
Leon J. Barrett Co., The, f, g, u.
Barrett-Christie Co., a, c.
Bendix Aviation Corp., Pioneer-Central Div., g.
E. W. Bliss Co., x, o-1.
Branson Ultrasonic Corp., g.
Bristol Co., The, y.
Brown Engrg. Co., Inc., v, y, b-1.
CDC Control Services, Inc., g-1.
Cedar Engr. Div.-Control Data Corp., h.
Chambersburg Engrg. Co., r, x.
Chicago Pneumatic Tool Co., b-1.
Cincinnati Cleaning & Finishing Machinery, g.
Cincinnati Milling Machine Co., The, x.
Cincinnati Shaper Co., The, r, x.
Cleveland Automatic Machine Co., l.
Clover Industries, Inc., x.
Cobehn, Inc., g.
Columbia Research & Development Corp., v.
Consolidated Electrodynamics Corp., c-1.
Consolidated Electrodynamics Corp., Rochester Div., c-1.
Continental Technical Service, Inc., h, v.
Control Data Corp., h.
Cosa Corp., c, q, x, f-1.
Covel Mfg. Co., a.
Dean & Benson Research, Inc., c, o.
Decker Corp., The, c, o.
Delsen Corp., g-1.
Denison Engrg. Div., American Brake Shoe Co., o-1, c-1, f-1.
W. C. Dillon & Co., Inc., g-1.
Diversey Engrg. Co., x.
Dynametrics Corp., c, g-1.
Eastman Kodak Co., z.
Eisler Engrg. Co., Inc., a, h, k, m, r, s, t, d-1, e-1.
Electro Technical Products Div. Sun Chemical Corp., u.
***ENGIS EQUIPMENT CO.**, q.
Falstrom Co., x, y.
Farrel Birmingham Co. Inc., k, o-1.
Federal Tool Engrg. Co., x, h-1.
Felker Mfg. Co., a.
Ferrotherm Co., The, d-1.
Finnell System, Inc., g.
Fish-Schurman Corp., s.
Foredom Electric Co., Inc., a, w, b-1.
Forsberg Mfg., Co., The, l, x, b-1.
Gardner-Denver Co., b-1.
General Electro-Mechanical Corp., b-1.
Duncan M. Gillies Co. Inc., w.
Globe Electrical Mfg. Co., q, o-1.
Gordon Enterprises, e, z.
George Gorton Machine Co., q, w.
Grant Chemical Co., Inc., g.
Green Instrument Co., q.
Gremco, Inc., b.
Grotnes Machine Work, Inc., r, x.
Gulton Industries, Inc., h.
Hannifin Co., Div.-Parker-Hannifin Corp., x, b-1, e-1.
Hayward Scientific Glass Corp., s.
High Speed Hammer Co., Inc., The, w, b-1, h-1.
High Vacuum Equipment Corp., j, n, u.
Carl Hirschmann Co., Inc., h, j, q, x, c-1, f-1.
Hi-Shear Rivet Tool Co., b-1.
Hobbs Mfg. Co., k.
P. R. Hoffman Co., j, k.
Hufford Corp., The, d, r, x, o-1, c-1.
Hull Corp., f, u, o-1.
Hussmann Aircraft Div., b.
Hydraulic Press Mfg. Co., The, Div.-Koehring Co., l, r, x, o-1.
Ideal Industries, Inc., h-1.
Impact-O-Graph Corp., The, c-1.
Induction Heating Corp., t, d-1.
Industrial Winding Machinery Corp., h.
Intercontinental Mfg. Co., Inc., x.
International Research & Development Corp., c.
Invincible Vacuum Cleaner Mfg. Co., g.
Kanarr Corp., q.
Kinney Mfg. Div., The New York Air Brake Co., n, t, u, e-1.
L. A. B. Corp., c-1, f-1.
Lapointe Machine Tool Co., The, x.
Lemert Engrg. Co., Inc., b-1.
Litton Engrg. Labs., s.
Lodge & Shipley Co., The, x, z.
MB Mfg. Co., f-1.
Marlo Coil Co., b.
Jas. H. Matthews & Co., w.
Mc Dowell-Wellman Companies, The, x, b-1.
Merz Engrg., Inc., w.
Mico Instrument Co., q.
Miller Dial & Nameplate Co., x, z.
Minnesota Mining & Mfg. Co., z.
Monode Inc., w.
Monogram Precision Industries, x, e-1.
Montgomery Engrg. Co., x, b-1.
Robert E. Morris Co., The, j.
NRC Equipment Corp., j, u.
National Ultrasonic Corp., g.
Nebel Machine Tool Corp., h, x.
Newbrook Machine Corp., m, r, x, d-1, e-1, f-1.
Noble & Westbrook Mfg. Co., The, w.
Norton Co., a, j.
Norton Co., New Products Dep.t, a, k.
Nuclear Products-Erco Div.-ACF Industries, Inc., x, b-1.
Oliver Corp., The, r, x.
Oliver Corp., The-A.B. Farquhar Div., o-1.
O'Neil-Irwin Mfg. Co., d, r, x, o-1.
Onsrud Machine Works, Inc., q.
Pacific Scientific Co., f-1.
Paragon-Revolute Corp., e, z.
Peck & Harvey Mfg. Corp., z.
Peerless Photo Products Inc., z.
Philips & Davies Inc., d.
Photobell Co., Inc., i.
Pines Engrg. Co. Inc., d.
Pioneer Tool & Engrg. Co., c, d, h.
H. K. Porter Co., Inc., d, k, z.
Potter Aeronautical Corp., i.
H. P. Preis Engraving Machine Co. q, w.
Pryor Marking Products, w.
Ransohoff, Co., g.
Raytheon Mfg. Co., b.
Red Point Corp., u.
Reeve Electronics, Inc., m, t, d-1.
Robot Industries Inc., i.
Roll Formed Products Co., x.
Roovers-Lotsch Corp., w.
Rotex Punch Co., Inc., d, x.
Joseph T. Ryerson & Son, Inc., d, k, r, x.
Schaevitz Engrg., c-1.
Sealectric Switch & Relay Corp., v, h-1.
Sheffield Corp., The, Sub.-Bendix Aviation Corp., y.
Spectra-Strip Wire & Cable Corp., w.
Squiers Gage Co., c, x.
State Testing Lab. Inc., c-1, f-1.
Stratos, Div.-Fairchild Engine & Airplane Corp., b.
W. Whitney Stueck, Inc., d, k, r, x.
Surface Combustion Corp., b.
Thiokol Chemical Corp., g-1.
Thomas Electronics, Inc., n, e-1.
Thomas Instrument Co., h-1.
Tinsley Labs., Inc., s.
Torrington Co., The, x.
Trane Co., The, b.
Transmares Corp., x, o-1
United Shoe Machinery Corp., Ordnance Dept., y.
U. S. Industries, Inc., x, y, o-1.
Universal Mfg. Co., Inc., h.
Vapor Blast Mfg. Co., a, g.
Veet Industries, o-1.
Verson Allsteel Press Co., r, x.
Vilter Mfg. Co., The, b.
Wales Strippit Inc., Unit of Houdaille Industries, Inc., x.
Weighing & Control Components, Inc., g-1.
Westinghouse Electric Corp., b.
Westlake Plastics Co., o-1.
Wheelabrator Corp., g.
Woolf Aircraft Products, Inc., x.
York Corp., b.
Zippertubing Co., The, e-1.

MACHINING, METAL
See METAL MACHINING

MACHMETERS

***AIRESEARCH MFG. CO., DIV.-THE GARRETT CORP.**
American Electronics, Inc., Taller & Cooper Div.
Bendix Aviation Corp., Pioneer-Central Div.
A. Biederman, Inc.
Consolidated Diesel Electric Corp.
Daystrom Pacific Div.-Daystrom, Inc.
Kollsman Instrument Corp., Sub.-Standard Coil Products Co. Inc.
***WALLACE O. LEONARD, INC.**
Minneapolis-Honeywell Regulator Co.-Aeronautical Div.
Servomechanisns, Inc.
Specialties, Inc.
Waldorf Electronics. Div.-F.C. Huyck & Sons
Wallace & Tiernan Inc.

MAGNETIC ANALYSIS EQUIPMENT

R. B. Annis Co.
Di-An Controls, Inc.
J. W. Dice Co.
Harvey-Wells Electronics Inc.
Magnaflux Corp.
Rese Engrg., Inc.

MAGNETIC CLUTCHES
See CLUTCHES, MAGNETIC

MAGNETIC MODULATORS
See MODULATORS, MAGNETIC

MAGNETIC STRIPE FILM
See FILM, MAGNETIC STRIPE

MAGNETIC TAPE DUPLICATORS
See DUPLICATORS, MAGNETIC TAPE

MAGNETIZERS & DEMAGNETIZERS

R. B. Annis Co.
Cinema Engrg.
Crucible Steel Co. of America
Electronic Brazing Co.
General Electric Co., Apparatus Sales Div.
General Electric Co., Metallurgical Products Dept.
Green Rectifier Co.
Indiana Steel Products Co., The
Kinevox Div.-Electromation Co.
Librascope Inc.
Magnaflux Corp.
Montgomery Engrg., Co.
Palo Alto Engrg. Co.
Qutronic Transformer Corp.
Raytheon Mfg. Co.
Technical Apparatus Builders

MAGNETOMETERS

R. B. Annis Co.
Device Development Corp.
General Electric Co., Apparatus Sales Div.
Magnaflux Corp.
Minneapolis-Honeywell Regulator Co., Boston Div.
Ohio Semiconductors, Inc.
Varian Assosiates

MAGNETOS & PARTS

American Bosch Arma Corp.
Bendix Aviation Corp., Scintilla Div.

General Electric Co., Metallurgical Products Dept.
J. E. Menaugh Co.

MAGNETS

Aerovox Corp.
Arnold Engrg. Co., The
Barker Sales Co.
Crucible Steel Co. of America
Edmund Scientific Co.
Eriez Mfg. Co.
Ferroxcube Corp. of America
Hamilton Watch Co.-Industrial Div.
Indiana Steel Products Co., The
J. E. Menaugh Co.
National Moldite Co.
Nebel Machine Tool Corp.
Stackpole Carbon Co.
Ullman Devices Corp.
Westinghouse Electric Corp., Metals Plant

MAGNETS, ELECTRO

Allied Control Co., Inc.
Carruthers & Fernandez, Inc.
Coils-Electronics
Crucible Steel Co. of America
Device Development Corp.
Ferroxcube Corp. of America
Harvey-Wells Electronics Inc.
Hoover Electric Co.
T. J. Houlihan Co.
Leetronics, Inc.
Modelectric Products Corp.
Pickering & Co., Inc.
Talley Corp., The
Varian Associates

MAGNETS, FOCUSING

Christie Machine Works
Crucible Steel Co. of America
Ferroxcube Corp. of America
Palo Alto Engrg. Co.
Varian Associates

MAGNETS, PERMANENT

Aerovox Corp.
Arnold Engrg. Co., The
Barker Sales Co.
Bram Metallurgical & Chemical Co.
Eriez Mfg. Co.
Ferroxcube Corp. of America
General Electric Co., Metallurgical Products Dept.
Hamilton Watch Co.-Industrial Div.
Indiana Steel Products Co., The
J. E. Menaugh Co.
National Moldite Co.
Stackpole Carbon Co.
Ullman Devices Corp.
Westinghouse Electric Corp., Metals Plant

MANIFOLDS

a. Air System
b. Fuel
c. Ignition
d. Intake & Exhaust
e. Nitrogen
f. Oxygen
g. Primer

Aeroquip Corp., Jackson Div., b.
Aircraft Mechanics, Inc., a, b, d.
American Tube Bending Co., Inc., d.
Aro Equipment Corp., e, f.
B. H. Aircraft Co., Inc., a, b, d.
***BEATON & CORBIN MFG. CO., THE, a, b, c, d, f.**
***BENDIX AVIATION CORP., HAMILTON DIV., b.**
Bendix Aviation Corp., Scintilla Div., c.
Benson Mfg., Co., The, a, d.
Bowser, Inc., Defense Dept., b.
Breeze Corporations, Inc., c.
California Aircraft Products, b.
Capital City Mfg. Co., a, g.
Carmac Aviation, a, b, d thru g.
Colonial Aircraft Corp., a, b, d.
Cooper Development Corp., Sub.-Marquardt Aircraft Co., b.
Curtiss-Wright Corp., Santa Barbara Div.
Curtiss-Wright Corp., Wright Aeronautical Div., a, b, d, g.
Dresser Mfg. Div., Dresser Industries, Inc., d.
Dunbar-Kapple Inc.-Aircraft Components Div., a, b, d.
***FLEXONICS CORP., AERONAUTICAL DIV., a.**
G. W. Galloway Co., a, b, e, f.
Hallett Mfg., Co., c.
Highland Rim Machine Works Inc., d.
Hofman Labs., Inc., a, f.
Ludwig Honold Mfg. Co., a, d.
Houston Fearless Corp., b, e.
International Pump & Machine Works, a, f.
Kaiser Aircraft & Electronics, Div.-Kaiser Industries Corp., a, d thru g.
***LAVELLE AIRCRAFT CORP., a, b.**
Lewis & Saunders, b, d thru g.
Linde Co., Div.-Union Carbide Corp., e, f.
Matheson Co., Inc., The, e, f.
Mercury Tool & Mfg. Corp., d.
Monogram Precision Industries, a, b, c, d.
Oxygen Equipment & Service Co., e, f.
Parts Engrg. Co., Inc., a, b, d, f.
Penn-Michigan Mfg. Corp., d.
Puritan Compressed Gas Corp., Aviation Div., f.
Red Lion Cabinet Co., Redco Tool Div., d.
Republic Mfg. Co., a.
Resistoflex Corp., b, e, f.
Precision Sheet Metal, Inc., a, d, e.
C. F. Roark Welding & Engrg. Co., Inc., a, e.
Robbins Aviation, Inc., a, e, f.
Ryan Aeronautical Co., a, d.
Sargent Engrg. Corp., a, b, e, f.
Sirvalco Systems Corp., d, e, f.
Smith-Morris Corp., a thru f.
Stainless Steel Products, Inc., a thru g.
Standard-Thomson Corp., Clifford Mfg. Co. Div., d.
Stratos, Div.-Fairchild Engine & Airplane Corp., a.
Superior Air Products Co., f.
Talley Corp., The, a.
Twin Coach Co., Aircraft-Missiles, d.
United Aircraft Products, Inc., a, b.
Veet Industries, b.
Waste King Corp., Technical Products Div., a, d, e, f.
Woolf Aircraft Products, Inc., a thru g.

MANIPULATORS, NUCLEAR

American Machine & Foundry Co., Government Products Group
American Machine & Foundry Co., Greenwich
American Research & Mfg. Corp.
Beaver Precision Products Inc.
Farrel Birmingham Co. Inc.
Greer Hydraulics, Inc.

MANOMETERS

Bristol Co., The
Centronix Inc.
Consolidated Electrodynamics Corp.
Dynametrics Corp.
Fisher Scientific Co.
Flow Corp.
E. Vernon Hill & Co.
Meriam Instrument Co.
Minneapolis-Honeywell Regulator Co., Industrial Product Group
Royal Industries, Inc.
Scientific Instrument Co.
Trimount Instrument Co.
Wallace & Tiernan Inc.
Western Arc Welding, Inc.

MARKERS, CODE & TAB
See CODE & TAB MARKERS

MARKING SERVICE, WIRE
See WIRE MARKING SERVICE

MASKS, APERTURE, TUBE

American Research & Mfg. Corp.
Birnbach Radio Co., Inc.
Croname Inc.
Falstrom Co.
Milton Ross Metals Co., The
Waldom Electronics Inc.

MASS RATE FLOWMETERS
See FLOWMETERS, MASS RATE

MATERIALS HANDLING EQUIPMENT

Acco Equipment Div., American Chain & Cable Co., Inc.
Aerodex, Inc.
Air Logistics Corp.
Aluminum Co. of America
***ALUMINUM SAFETY PRODUCTS, INC.**
American Machine & Foundry Co., Government Products Group
American Machine & Foundry Co., Greenwich
Associated Engineers, Inc.
Baker Industrial Trucks, Div.-Otis Elevator Co.
Barrett-Christie Co.
Basic Tool Industries, Inc.
Brooks & Perkins, Inc.
Albert H. Cayne Equipment Corp.
Chain Belt Co.
Clark Equipment Co.
Colson Corp., The
Columbia Research & Development Corp.
Conco Engrg. Works
Consolidated Diesel Electric Corp.
Continental Technical Service, Inc.
Cromer Mfg. & Engrg., Inc.
Delsen Corp.
Deluxe Metal Products Co.
Dresser Mfg. Div., Dresser Industries, Inc.
Econoweld Corp.
Elwell-Parker Electric Co., The
FWD Corp.
Fairbanks Co., The
G. W. Galloway Co.
Globe Hoist Co.
Gyrex Corp., The
Hallicrafters
Hapman Conveyors, Inc.
Hardman Tool & Engrg., Co.
Hewitt-Robins, Inc.
Hufford Corp., The
Hyster Co.
Industrial Tools Mfg. Corp., Sub.-Pendleton Tool Industries, Inc.
Ingersoll Kalamazoo Div., Borg-Warner Corp.
Jeffrey Mfg. Co., The
Link-Belt Co.
Magline Inc.
Mc Dowell-Wellman Companies, The
***MIRAX CHEMICAL PRODUCTS CORP., METAL CONTAINER DIV.**
Monogram Precision Industries
National Vulcanized Fibre Co.
Nelson Labs., Inc.
Nuclear Products-Erco Div.-ACF Industries, Inc.
Oliver Corp., The-A. B. Farquhar Div.
O'Neil-Irwin Mfg. Co.
Opelika Welding, Machine & Supply Inc.
Ordnance Div.-Food Machinery & Chemical Corp.
H. K. Porter Co., Inc.
R & R Engrg. Co.
Rapids-Standard Co., Inc., The
Regent Jack Mfg. Co., Inc.
Revolvator Co.
Richardson Scale Co.
Richards-Wilcox Mfg. Co.
Robbins & Myers, Inc., Hoist & Crane Div.
Rotary Lift Co., Div.-Dover Corp.
Royal Industries, Inc.
Sage Equipment Co. Inc.
Skyline Products, Inc.
Special Projects Lab., Food Machinery & Chemical Corp.
Thayer Scale Corp.
Trailmobile Inc.
Unit Crane & Shovel Corp.
United States Chemical Milling Corp.
Van Zelm Associates, Inc.
Wayne Pump Co., The, Div.-Symington Wayne Corp.
***R. D. WERNER CO., INC.**
Albert Wesling & Sons Inc.

MATRIXES COMPUTER

Aeronutronic Systems, Inc., Sub.-Ford Motor Co.
American Felt Co.
Control Data Corp.
Di-An Controls, Inc.
Erie Resistor Corp.
Ferroxcube Corp. of America
Librascope Inc.
Motorola Inc., Military Electronics Div.
Radiation, Inc.
Thayer Scale Corp.

MEASUREMENT INDUCTANCE SPECIALTIES
See INDUCTANCE SPECIALTIES, MEASUREMENT

MEASUREMENT SERVOS
See SERVOS, MEASUREMENT

MEASURING CELLS, FORCE
See FORCE MEASURING CELLS

MEASURING DEVICES, LIQUID LEVEL
See LIQUID LEVEL MEASURING DEVICES

MEASURING EQUIPMENT, DISTANCE
See DISTANCE MEASURING EQUIPMENT

MEASURING EQUIPMENT, PRESSURE

***AIRESEARCH MFG. CO., DIV.-THE GARRETT CORP.**
Bristol Co., The
Brush Instruments, Div.-Clevite Corp.
Colvin Labs., Inc.
Consolidated Diesel Electric Corp.
Consolidated Electrodynamics Corp.
Continental Technical Service, Inc.
Cooper Development Corp., Sub.-Marquardt Aircraft Co.
Curtiss-Wright Electronics Div., IMI Branch
Decker Corp., The
Dynametrics Corp.
Thomas A. Edison Ind. Instrument Div.-McGraw-Edison Co.
Endevco Corp.
Fisher Scientific Co.
General Electric Co., Apparatus Sales Div.
E. Vernon Hill & Co.
Intercontinental Dynamics Corp.
Interstate Engrg. Corp.
Kin Tel Div.-Cohu Electronics, Inc.
Midwestern Instruments, Inc.
Minneapolis-Honeywell Regulator Co., Industrial Product Group
Photron Instrument Co.
Radiation, Inc.
Rahm Instruments, Div.-American Machine & Metals, Inc.
Rosemount Engrg. Co.
Sanborn Co.
Schaevitz Engrg.
Scientific Instrument Co.
Specialties, Inc.
Steel City Testing Machines, Inc.
Sun Electric Corp., Aeronautical Div.
Systron Corp.
Technology Instrument Corp.
Telechrome Mfg. Corp.
Thayer Scale Corp.
Trans-Sonics, Inc.
United Electric Controls Co.
U. S. Science Corp., Div.-Topp Industries, Inc.
Winzen Research Inc.

MEASURING EQUIPMENT, TEMPERATURE
See TEMPERATURE MEASURING EQUIPMENT

MEASURING EQUIPMENT, VIBRATION

American Research & Mfg. Corp.
Applied Science Corp. of Princeton

B & K Instruments, Inc.
Brush Instruments, Div.-Clevite Corp.
Chrysler Corp., Defense Operations Div.
Consolidated Electrodynamics Corp.
Decker Corp., The
Electro Products Laboratories, Inc.
Endevco Corp.
Epic, Inc.
Gaertner Scientific Corp., The
Insco Co., Div.-Barry Controls Inc.
Kahn & Co., Inc.
Kay Electric Co.
Land-Air Inc.
MB Mfg. Co.
Midwestern Instruments, Inc.
Minneapolis-Honeywell Regulator Co.-Davies Labs. Div.
Pacific Scientific Co.
Photron Instrument Co.
Radiation, Inc.
Schaevitz Engrg.
H. H. Scott, Inc.
Southwestern Industrial Electronics Co.
Space Corp.
Sun Electric Corp., Aeronautical Div.
Systron Corp.
Technology Instrument Corp.
Tel-Instrument Electronics Corp.
United Electrodynamics, Inc.
U. S. Science Corp., Div.-Topp Industries, Inc.

MEASURING EQUIPMENT, VSWR

Alford Mfg. Co.
Barker Sales Co.
Barker & Williamson Inc.
California Technical Industries, Div.-Textron Inc.
Cubic Corp.
Demornay-Bonardi
Engrg. Associates
FXR, Inc.
Hewlett-Packard Co.
Kay Electric Co.
Polarad Electronics Corp.
Radar Design Corp.
Sperry Microwave Electronics Co., Div.-Sperry Rand Corp.
Telectro Industries Corp.
Webcor, Inc., Government Div.

MEASURING INSTRUMENTS, THRUST
See THRUST MEASURING INSTRUMENTS

MECHANICAL CABLE ASSEMBLIES
See CABLE ASSEMBLIES, MECHANICAL

MECHANICAL OR HAND TOOLS
See TOOLS, HAND OR MECHANICAL

MECHANICAL RECEIVER TUNING DEVICES
See TUNING DEVICES, RECEIVER MECHANICAL

MECHANICAL & VACUUM ENGINE CONTROLS
See ENGINE CONTROLS, MECHANICAL & VACUUM

MECHANISM UNITS, RETRACTING
See RETRACTING, MECHANISM UNITS

MEGAPHONES, ELECTRONIC

Davenport Mfg. Co.
Gordon Enterprises
Motorola Inc., Military Electronics Div.

MEGOHMETERS, VACUUM TUBE

Associated Research, Inc.
Brush Instruments, Div.-Clevite Corp.
Dresser Industries, Inc.
Electro-Tech Equipment Co.
Freed Transformer Co. Inc.
Greibach Instruments Corp.
Industrial Instruments Inc.
Keithley Instruments, Inc.
Leeds & Northrup Co.
MacLeod & Hanopol, Inc.
Paco Electronics Co., Inc.
Precise Development Corp.
Precision Apparatus Co., Inc.
Slaughter Co., Inc.
Telectro Industries Corp.
Weston Instruments, Div.-Daystrom, Inc.

MEMORY

a. Crystal
b. Drums
c. Multi-Core Magnetics
d. Systems
e. Tape Loop
f. Tubes

ACF Industries Inc., b.
Aeronutronic Systems, Inc., Sub.-Ford Motor Co., b, c, d.
Airtronics International Corp., b.
American Missile Products Co., Inc., b.
Anaheim Electronics Co., Inc., e.
Barker Sales Co., b, d.
Bell & Gossett Co., c.
Bendix Computer, Div.-Bendix Aviation, Corp., b, c, d.
Burroughs Corp., b, c, d.
Centronix Inc., d.
Christie Machine Works, b.
Communications Research Co., d.
Computer Control Co., Inc., d.
Consolidated Controls Corp., b, d.
Control Engrg. Co., Div. Jervis B. Webb Co., b, d.
DBM Research Corp., e.
Di-An Controls, Inc., b, c, d.
Donner Scientific Co., d.
Dresser Industries, Inc., b, d.
Thomas A. Edison Ind. Instrument Div.-McGraw-Edison Co., d.
Erie Resistor Corp., d.
Ferranti Electric Inc., b, d.
Ferroxcube Corp. of America, c.
Forbes & Wagner, Inc., c.
General Electric Co., Computer Dept., c, d.
General Transistor Western Corp., b, e.
Haller, Raymond & Brown Inc. Div., Singer Mfg., Co., d.
Hamilton Watch Co.-Industrial Div., b.
Hughes Aircraft Co., b.
ITT Labs.-Ft. Wayne, f.
Instrumentaion Div.-Ampex Corp., e.
Instruments for Industry, Inc., e.
***KEARFOTT CO., INC., c.**
Kilgen Aircraft Div., d.
Librascope Inc., b, c, d.
Mica Insulator Div.-Minnesota Mining & Mfg. Co., f.
Midwestern Instruments, Inc., b, d, e.
Milgo Electronic Corp., c.
Minneapolis-Honeywell Regulator Co., Davies Labs. Div., e.
Minneapolis-Honeywell Regulator Co., Industrial Product Group, e.
Minneapolis-Honeywell Regulator Co., Ordnance Div., d.
Minnesota Mining & Mfg. Co., e.
Monarch Bearing Co. Inc., b.
Motorola Inc., Military Electronics Div., a, c, d.
National Cash Register Co., The, Electronics Div., b, d.
Northrop Corp., b, c, d.
Northrop Corp., The, Nortronics Div., b, d.
Philco Corp., Government & Industrial Div., c, d, e.
Power-Tronic Systems Inc., d.
Precision Methods & Machines Div.-Textron Inc., b.
Raytheon Mfg. Co., f.
Servomechanisms, Inc.
Topco Group, Thompson-Ramo-Wooldridge Inc., b.
Telechrome Mfg. Corp., e.
Telectro Industries Corp., d, e, f.
Vard Inc., b.
Vitro Labs., c, d.
Wang Labs., Inc., c, d, e.
Webcor, Inc., Government Div., d, e.
Winzen Research Inc., e.
Wright Engrg. Co., b.

METAL ANODES
See ANODES, METAL

METAL CHASSIS
See CHASSIS, METAL

METAL CLAD SHEETS

Aeronca Mfg. Corp.
Allegheny Ludlum Steel Corp.
Allied Plastics Supply Corp.
Alloys Unlimited Inc.
Aluminum Co. of America
American Printed Circuits Co., Inc.
American Silver Co.
J. Bishop & Co., Platinum Works
Bram Metallurgical & Chemical Co.
Bridgeport Brass Co.
Continental Diamond Fibre Corp.
Curtiss-Wright Corp., Marquette Div.
Curtiss-Wright Corp., Propeller Div.
Curtiss-Wright Corp., Research Div.
Delta Chemical Works, Inc.
E. I. Du Pont De Nemours & Co., Inc.
Engelhard Industries, Inc.
Engelhard Industries Inc., D. E. Makepeace Div.
Etched Products Corp.
Firestone Tire & Rubber Co., The, Guided Missile Div.
General Plastics Corp. of New Jersey
Gladding, McBean & Co.
Hupp Aviation Co.
Kanarr Corp.
Kelsey-Hayes Co.
Metals & Controls Corp., General Plate Div.
Met-L-Wood Corp.
Minnesota Mining & Mfg. Co.
Monogram Precision Industries
National Vulcanized Fibre Co.
New England Laminates Co., Inc.
Pilgrim Products Inc.
Red Lion Cabinet Co., Redco Tool Div.
Republic Steel Corp.
Standard Metals Corp.
Taylor Fibre Co.
U. S. Steel Supply Div., United States Steel Corp.
United States Chemical Milling Corp.
United States Plywood Corp.

METAL FORMING PRESSES
See PRESSES, METAL FORMING

METAL GRILLES
See GRILLES, METAL

METAL MACHINING

Abalon Precision Mfg. Corp.
Aerodex, Inc.
Aeronca Mfg. Corp.
Aircraft Precision Products, Inc.
Allen Tool Corp.
Amatom Electronic Hardware Co. Inc.
American Non Gran Bronze Co.
Anchor Metal Spinning Co., The
Anchor Specialty Mfg. Co. Inc.
Arnolt Corp.
Astronautics Engrg Co.
B. H. Aircraft Co., Inc.
W. A. Beauchaine & Sons Inc.
Bergen Carbide Co.
Bland Burner Co., The
E. W. Bliss Co.
Bridgeport Brass Co.
Brown Engrg. Co., Inc.
Bruce Engrg. Co.
Brush Beryllium Co., The
California Aircraft Products
Capital City Mfg. Co.
Cormac Aviation
Chicago Screw Co., The, Div.-Standard Screw Co.
C. B. Christiansen Co.
Christie Machine Works
Continental Technical Service, Inc.
Cooper Development Corp., Sub.-Marquardt Aircraft Co.
Crompton & Knowles Corp.
Curtiss-Wright Corp.-Marquette Div.
Curtiss-Wright Corp.-Propeller Div.
Curtiss-Wright Corp.-Wright Aeronautical Div.
Diversey Engrg. Co.
Dresser Industries, Inc.
Electro-Mechanical Products Co.
Electronic Parts Mfg. Co., Inc.
Elzee Metal Products Co., Inc.
Etched Products Corp.
Farrel Birmingham Co. Inc.
Farwell Metal Fabricating
Federal Machine Co. Inc.
Fletcher Mfg. Co., Inc., The
Freeman Co., The
GAR Mfg. Corp.
Gordon Enterprises
Graflex Inc.
Hardman Tool & Engrg. Co.
Highland Rim Machine Works Inc.
Hufford Corp., The
Hughes Tool Co., Aircraft Div.
Hupp Aviation Co.
Intercontinental Mfg. Co., Inc.
Kaiser Aircraft & Electronics, Div.-Kaiser Industries Corp.
Kanarr Corp.
M. W. Kellogg Co., The
Kelsey-Hayes Co.
Kolcast Industries-Div. Thompson Ramo Wooldridge Inc.
E. Konigslow Stamping & Tool Co.
Ladish Co.
La Pointe Industries Inc.
***LAVEZZI MACHINE WORKS**
Lux Clock Mfg. Co., Inc.
Mercury Tool & Mfg. Corp.
Meridian Metalcraft, Inc.
Merz Engrg., Inc.
Monogram Precision Industries
National Research Corp.
Nordberg Mfg. Co.
Onsrud Machine Works, Inc.
Pacific Coast Engrg. Co.
Papesch & Kolstad, Inc.
Parts Engrg. Co., Inc.
Philips & Davies Inc.
Piasecki Aircraft Corp.
Portland Copper & Tank Works Inc.
Precision Shapes, Inc.
R & R Engrg. Co.
Ravenna Metal Products, Div.-Standard Screw Co.
Red Devil Mfg. Co.
Red Lion Cabinet Co., Redco Tool Div.
Edw. Renneburg & Sonos Co.
Rimak, Inc.
C. F. Roark Welding & Engrg. Co., Inc.
Rohr Aircraft Corp.
Ryan Aeronautical Co.
Sheffield Corp., The, Sub.-Bendix Aviation Corp.
Sinclair Mfg. Co.
Specialties Mfg. Co., Inc.
Stainless Steel Products, Inc.
Stanley Aviation Corp.
Taft-Peirce Mfg. Co., The
Teiner Engrg. Corp.
Texas Metal & Mfg. Co., Inc.
Arthur Tickle Engrg. Works, Inc.
Turbo Products, Inc.
United Aircraft Products, Inc.
United Mfg. Co., The
United Plating Works
Washington Machine & Tool Works, Inc.
Wayne Pump Co., The, Div.-Symington Wayne Corp.
Western Iron & Foundry Co., Inc.
Wheland Co., The
Wilks Precision Instrument Co., Inc.

METAL TO METAL ADHESIVES
See ADHESIVES, METAL TO METAL

METAL NEEDLES
See **NEEDLES, METAL**

METAL OR PLASTIC PLATES
See **PLATES, METAL OR PLASTIC**

METAL TREATING

Aerodex, Inc.
Aeronca Mfg. Corp.
Amatom Electronic Hardward Co. Inc.
E. W. Bliss Co.
Brooks & Perkins, Inc.
Brown Engrg. Co., Inc.
California Aircraft Products
Chicago Screw Co., The, Div.-Standard Screw Co.
Crompton & Knowles Corp.
Curtiss-Wright Corp.-Wright Aeronautical Div.
Diversey Engrg. Co.
Dresser Industries, Inc.
Ferrotherm Co., The
Graflex Inc.
High Vacuum Equipment Corp.
Intercontinental Mfg. Co., Inc.
Kelite Corp.
M. W. Kellogg Co., The
Kolcast Industries-Div. Thompson Ramo Wooldridge Inc.
Lux Clock Mfg. Co., Inc.
Metalectro Lab.
Oakite Products, Inc.
Piasecki Aircraft Corp.
Portland Copper & Tank Works Inc.
Ransohoff, Co.
Red Lion Cabinet Co., Redco Tool Div.
Rimak, Inc.
Rohr Aircraft Corp.
Ryan Aeronautical Co.
Spectronic Plating Co., Inc., Div.-Spectranome Plating Co., Inc.
Stainless Steel Products, Inc.
Stanley Aviation Corp.
Teiner Engrg. Corp.
United Plating Works
U. S. Industries, Inc.
***WALL COLMONOY CORP., STAINLESS PROCESSING DIV.**
Wye Industries

METALLIC BUSHINGS
See **BUSHINGS, METALLIC**

METALLIC EXTRUSIONS
See **EXTRUSIONS, METALLIC**

METALLIC FITTINGS
See **FITTINGS, METALLIC**

METALLIC GASKETS
See **GASKETS, METALLIC**

METALLIC MOUNTINGS
See **MOUNTINGS, METALLIC**

METALLIC PAINT
See **PAINT, METALLIC**

METALLIC SLEEVES
See **SLEEVES, METALLIC**

METEOROLOGICAL EQUIPMENT, ELECTRONIC

Aerolab Development Co.
American Machine & Foundry Co., Government Products Group
Automation Dynamics Corp.
B J Electronics, Borg-Warner Corp.
Beckman & Whitley, Inc., Missile Products Div.
Bendix Aviation Corp., Friez Instrument Div.
Cooper Development Corp., Sub.-Marquardt Aircraft Co.
Datex Corp.
Ferrotran Electronics Co., Inc.
La Pointe Industries Inc.
Motorola Inc., Military Electronics Div.
Radiation, Inc.
M. C. Stewart
Tapco Group, Thompson-Ramo-Wooldridge Inc.
Tele-Dynamics Inc.
Victory Engrg. Corp.

METEOROLOGICAL INSTRUMENTS

Aerolab Development Co.
Airguide Instrument Co.
B J Electronics, Borg-Warner Corp.
Beckman & Whitley, Inc., Missile Products Div.
Bendix Aviation Corp., Friez Instrument Div.
Cooper Development Corp., Sub.-Marquardt Aircraft Co.
Instruments Corp., The
Minneapolis-Honeywell Regulator Co., Industrial Product Group
Motorola Inc., Military Electronics Div.
Scientific Instrument Co.
M. C. Stewart
Tapco Group, Thompson-Ramo-Wooldridge Inc.
Tele-Dynamics Inc.
United Electrodynamics, Inc.
Wallace & Tiernan Inc.

METER SHUNTS
See **SHUNTS, METER**

METERS
a. Acceleration
b. Ammeter
c. Ammeter RF
d. Attenuation
e. Audio
f. Cable Testing
g. Capacitance
h. Conductance
i. Counting Rate
j. Counting Rate, Nuclear
k. D Arsonval
l. Decibel
m. Deflection
n. Deviation
o. Distortion & Noise
p. Dosimeter
q. Dosimeter, Nuclear
r. Elapsed Time
s. Electrometer
t. Electronic Micrometer
u. Events-Per-Unit-Time
v. Exposure for Film
w. Field Strength
x. Flow
y. Flutter
z. Flux
a1. FM Deviation
b1. Footcandle
c1. Frequency
d1. Galvanometer
e1. Goniometer
f1. Grid Dip
g1. Impedance
h1. Industrial
i1. Infrared
j1. Intermodulation
k1. Kilovolt
l1. Kilowatt
m1. Light
n1. Megohm
o1. Microfarad
p1. Microvolt
q1. Microwave
r1. Milliampere
s1. Millivolt
t1. Modulation
u1. Moisture, Electronic
v1. Multimeter
w1. Multiplier
x1. Noise, Electrical Measurement
y1. Ohm
z1. Output, Electrical Measurement
a2. Output, RF
b2. Panel
c2. PH Meters, Recorders & Comparators
d2. Phase
e2. Photoelectric Reflection
f2. Power Output
g2. Pressure
h2. Pyrometer
i2. Q
j2. Radiation, Nuclear
k2. Rate
l2. Ratio
m2. Recording
n2. RF Power
o2. Snap Around
p2. Sound Level
q2. Spectral
r2. Standing Wave Radio
s2. Tachometer
t2. Tension
u2. Thermocouple
v2. Thermometer
w2. Thrust
x2. Time
y2. Torque
z2. Ultra-Violet
a3. Vacuum Tube Volt
b3. Vibrating Reed
c3. Vibration
d3. Viscosity, Electronic
e3. Volt-Ohm, Electronic
f3. Watt
g3. Watt-Hour
h3. Wave
i3. Wow & Flutter
j3. X-Ray Intensity

Acromag Inc., c-1.
Acton Labs. Inc., g, g-1, d-2, e-3.
Actuator Products Div., Geartronics Corp., u, h-1, b-2, k-1, s-2.
Advanced Products Co., The, r, x-2.
Ad-Yu Electronics Lab., Inc., c-1, d-2.
Aero Instrument Co., r, c-1, x-2, b-3.
Aerojet-General Corp., i-1.
Aircom Inc., c-1, q-1, r-2.
Aircom Inc. of New Jersey, c-1, q-1, r-2.
***AIRESEARCH MFG. CO., DIV.-THE GARRETT CORP.**, w-2.
Airguide Instrument Co., w-2.
Airpax Electronics Inc., Seminole Div., i, c-1, h-1, s-2, i-3.
Allied Research Products, Inc., b.
Amelco, Inc., c-1.
Amerac Inc., h-3.
American Aeroports, a, b, c, r, x.
American Machine & Foundry Co., Government Products Group, a, c-1, f-2, f-3.
American Machine & Foundry Co., Greenwich
American Measurement & Control, Inc., x.
American Missile Products Co., Inc., g.
Amplifier Corp. of America, n, y, i-3.
Amthor Testing Instrument Co., Inc., m-2, s-2.
Analytical Measurements, Inc., c-2.
Antenna & Radome Research Associates, d.
Anton Electronic Labs., Inc., b, l, j, k, r, r-1, v-1, b-2, j-2, e-3, j-3.
Assembly Products, Inc., b, c, k, h-1, m-1, p-1, r-1, s-1, y-1, b-2, h-2, u-2, e-3, e-3, f-3.
Associated Research, Inc., f, k-1, m-1, v-1, y-1, e-3.
Astronautics Engrg. Co., x.
Audio Instrument Co., Inc., j-1.
Automation Products, Inc., d-3.
Avien, Inc., x.
Avo Ltd., b, v-1, e-3.
Avtron Mfg., Inc., e-1, c-1, t-1.
Axler Associates Inc., i-1, s-2.
B & F Instruments, Inc., t-2, w-2, y-2.
B & H Instrument Co., Inc., c-1, s-1, h-2, s-2, u-2.
B & K Instruments, Inc., e, l, m-1, p-2, c-3.
Baird-Atomic Inc., j, u, j-2, q-2.
Ballantine Labs., Inc., g, v-1, e-3.
Barker & Williamson Inc., e, c-1, f-1, e-2, m-2, r-2.
Beckman Instruments, Inc., Berkeley Div., r, u, c-1, y-1, s-2, x-2, e-3.
Beckman-Scientific & Process Instruments Div., c-2.
Beckman & Whitley, Inc., Missile Products Div., w-2.
Beede Electrical Instrument Co. Inc., b, c, k, l, r, d-1, k-1, r-1, s-1, b-2, h-2, p-2, s-2, x-2.
Bendix Aviation Corp., Pioneer-Central Div., x.
Bendix Aviation Corp., York Div., e-3.
Bergen Labs., Inc., r, v-1.
Beva Lab., Inc., f, i, r, u, j-3.
James G. Biddle Co., d-1, m-1, y-1, s-2, b-3.
A. Biederman, Inc., b-2, s-2.
Boonton Radio Corp., i-2.
Bowser, Inc., Defense Dept., x, h-1.
Briggs Associates, Inc., h-3.
Bristol Co., The, b, i, k, n, r, s, u, x, c-1, d-1, h-1, k-1, l-1, n-1, p-1, r-1, s-1, v-1, y-1, b-2, c-2, f-2, g-2, h-2, m-2, s-2, u-2, v-2, x-2, d-3.
Brooks Rotameter Co., x.
Brunswick Instruments, n-2.
Brush Instruments, Div.-Clevite Corp., a, k thru n, u, d-1, g-1, h-1, p-1, s-1, t-1, v-1, y-1, e-2, m-2, p-2, s-2 thru x-2.
Budd Stanley Co. Inc., c-1, q-1.
Budelman Electronics Corp., c-1, x-1.
California Technical Industries, Div.-Textron Inc., f, q-1, r-2.
Cambridge Instrument Co., Inc., k, p, z, c-2.
Centronix Inc., i.
Chemalloy Electronics Corp., q-1.
Chesapeake Instrument Corp., g-1.
Collins Engrg. Corp., b.
Columbia Electric Mfg. Co., b.
Com-Air Products, Div.-A S R Products Corp., x.
Conax Corp., u-2.
Consolidated Controls Corp., g-2, w-2, y-2.
Consolidated Diesel Electric Corp., g-2, v-2.
Consolidated Electrodynamics Corp., d, v-1, g-2, e-3.
Convair-Instruments, Div.,-General Dynamics Corp., e-1.
Cornell-Dubilier Electric Corp., g.
Cramer Controls Corp., r, x-2.
Cubic Corp., k-1, n-1, p-1, y-1, l-2, f-3.
Curtiss-Wright Corp., Research Div., j.
DBM Research Corp., u.
D. & R. Ltd., i-3.
Daven Co., The, e, l, o, c-1, x-1, f-2, p-2, e-3, e-3.
Davenport Mfg. Co., f, k-1, m-1, x-1, p-2.
Daystrom Pacific Div.-Daystrom, Inc., a, s-1, g-2, h-2, w-2.
Dejur-Amsco Corp., Electronic Sales Div., b, k, l, r, v, k-1, m-1, r-1, s-1, v-1, x-1, b-2, p-2.
Del Electronics Corp., k-1, w-1.
Demornay-Bonardi, c-1, q-1.
Device Development Corp., z.
Diamond Antenna & Microwave Corp., c-1, q-1, h-3.
J. W. Dice Co., t, m-1, y-1.
W. C. Dillon & Co., Inc., t-2, v-2.
Dimco-Gray Co., x-2.
Divco-Wayne Electronics Div., Divco-Wayne Corp., c-1.
Donner Scientific Co., a, e, y, w-1, i-3.
Douglas Microwave Co., Inc., c-1, q-1, n-2.
Dresser Industries, Inc., m-1, r-1, v-1, y-1, e-3, e-3.
M. Ducommun Co., x-2.
Durant Mfg. Co., h-1.
Dynamics Instrumentation Co., Div.-Alberhill Corp., p-1, s-1.
Dytronics Co., d-2.
Eastern Specialty Co., The, d-2.
Thomas A. Edison Ind. Instrument Div.-McGraw-Edison Co., k, c-1, g-1, g-2, l-2, y-2.
Eldorado Electronics, r, e-2, i-2, x-2.
Electric Auto-Lite Co., The, b.
Electric Design & Mfg. Co., b, k, k-1, r-1, s-1, b-2.
Electro Instruments, Inc., b, g, k-1, m-1, c-1, p-1, r-1, s-1, y-1, l-2, u-2, e-3.
Electro Precision Corp., u.
Electro Products Laboratories, Inc., s-2.
Electronic Applications, Inc., g, n, o, s, y, c-1, c-1, j-1, y-1, i-3.
Electronic Engrg. Co. of California, u, x-2.
Electronic Instrument Co., Inc. (EICO), e-3, e-3.
Electronics of Clearfield, Inc.,x-2, e-3, f-3.
Electro-Tech Equipment Co., b, k, r, b-1, c-1, d-1, k-1, thru n-1, r-1, s-1, v-1, v-1, w-1, y-1, b-2, h-2, m-2, o-2, p-2, s-2, u-2, v-2, x-2, e-3, b-3, e-3, f-3.
Elgin Micronics Div.-Elgin National Watch Co., a, r, x-2.

Empire Products Sales Corp., d, e, w, t-1, x-1.
Engrg. Associates, c-1, j-2, r-2.
Epic, Inc., b, f, g, r, s, c-1, d-1, g-1, n-1, o-1, p-1, r-1, s-1, h-2, s-2, u-2, b-3, c-3.
Erdco Engrg. Corp., f.
Erie Resistor Corp., i, r, u, x, c-1.
Etched Products Corp., b-2.
FXR Inc., d, p, q-1, t-1, x-1, l-2, r-2, h-3.
Federal Mfg. & Engrg. Corp., c-1.
Federal Products Corp., t.
Ferranti Electric Inc., k-1, d-3, g-3.
Fischer & Porter Co., i, u, x, c-1, h-1, g-2, k-2, l-2, m-2.
Fisher Research Lab., Inc., q, s-1, u-1, x-1, j-2, o-3, c-3.
Fisher Scientific Co., c-2, h-2, v-2.
Flow Corp., x, p-1, s-1, f-2.
Flow Measurements Corp., x.
John Fluke Mfg. Co., Inc., o-3.
Freed Transformer Co. Inc., i-2.
Gardner Laboratory, Inc., c-2, e-2, h-2, v-2.
General Communication Co., h-3.
General Electric Co., Apparatus Sales Div., b, k, r, v, x, c-1, d-1, h-1, k-1, l-1, m-1, r-1, s-1, z-1, o-2, f-2, h-2, j-2, m-2, n-2 o-2, s-2, u-2 thru x-2, f-3, g-3, j-3.
General Electric Co., X-Ray Dept., e-1, j-3.
Gordon Enterprises, r, v, b-1, m-1, x-2.
Greibach Instruments Corp., b, k, d-1, n-1, r-1, s-1, v-1, y-1, b-2, u-2, e-3.
Guided Missile Div.-DeHavilland Aircraft of Canada, Ltd., n.
Hagan Chemicals & Controls, Inc., x, g-2.
Haller, Raymond & Brown Inc. Div., Singer Mfg. Co., i-1.
Hallikainen Instruments, d-3, e-3.
Hamilton Watch Co.-Industrial Div., r, x-2.
Hammel-Dahl Div.-General Controls Co., x.
***A. W. HAYDON CO., THE,** r, x-2.
Hays Corp., The, g-2.
Helipot Div.-Beckman Instruments Inc., b, c-1, b-2.
Hewlett-Packard Co., b, c, d, h, l, m, n, r, u, o-1, g-1, h-1, p-1 thru t-1 x-1, o-2, n-2, r-2, s-2, o-3, j-3.
John W. Hobbs Corp., Div.-Stewart-Warner Corp., r.
Hoyt Electrical Instrument Works, Burton Rogers Co., b, k, l, r-1, s-1, o-2.
Humphrey, Inc., a.
Hycon Mfg. Co., v, x-1, e-2.
I-L-S Instrument Div., The Meriam Instrument Co., r, u, x, s-2.
Ideal Precision Meter Co., Inc., b, e, k, l, r-1, s-1, o-2.
Illinois Testing Laboratories, Inc., h-2, u-2, v-2.
Impact-O-Graph Corp., The, a.
Industrial Control Co., r-1, s-1.
Industrial Instruments Inc., f, n-1.
Industrial Test Equipment Co., d-2, i-2, o-3.
Industrial Timer Corp., x-2.
Industrial Winding Machinery Corp., t-2.
Inertia Switch, Inc., u.
Instrument Labs., z-1, o-3, e-3.
Instruments Corp., The, s-2.
International Instruments Inc., b, k, l, r-1, s-1, b-2.
International Register Co., x-2.
International Research & Development Corp., c-3.
Jennings Radio Mfg. Corp., k-1.
Kahn & Co., Inc., g, c-1, s-2.
Kauke & Co., s-1.
Kay Electric Co., e, f, l, o, y, c-1, p-1, x-1, o-2, i-2, n-2, p-2, o-3, c-3, i-3.
***KEARFOTT CO., INC.**
Keithley Instruments, Inc., s, k-1, n-1, p-1, s-1, v-1, o-3, e-3.
Kin Tel Div.-Cohu Electronics, Inc., d-1, p-1, r-1, s-1, x-1, p-2.
Kollsman Instrument Corp., Sub.-Standard Coil Products Co. Inc., s-2, w-2.
Korda Industries, x.
Harold Kruger Instruments, c-2.
Lampkin Labs., Inc., M. R. Div., n, o-1, c-1, t-1.
Land-Air Inc., i, j, p, q, u, x, c-1, k-2, q-2, c-3.
Landis & Gyr Inc., g-3.
Landsverk Electometer Co., The, j-2.
Lavoie Laboratories Inc., c-1.
Leeds & Northrup Co., f, g, h, b-1, d-1, g-1, n-1, p-1, r-1, s-1, y-1, c-2, h-2, m-2, u-2, v-2.
***WALLACE O. LEONARD, INC.,** a.
***LEWIS ENGRG. CO., THE,** h-2, u-2, v-2.
Librascope Inc., x.
Ling Electronics, Inc., c-3.
M B Mfg. Co., c-3.
MacLeod & Hanopol, Inc., g.
Magnetic Instrument Co. Inc., g, p, q, w-1, j-1, k-2, l-2, u-2.
Magtrol, Inc., y-2.
Marconi Instruments, g, n, o, o-1, j-1, n-1, o-1, u-1, x-1, y-1, z-1, o-2, f-2, h-2, n-2, q-2, o-3, e-3, f-3, h-3.
Marion Instrument Div., b, k, l, r, r-1, s-1, b-2.
Mason-Neilan, x, m-2.
Matheson Co., Inc., The, g-2.
W. L. Maxson Corp., The, x.
Measurements Div., McGraw Edison Co., f-1, j-1.
Menlo Research Lab., p, q, c-2, j-2.
Meridian Metalcraft, Inc., q-1.
Meters Inc., b, k, l, d-1, k-1, n-1, r-1, s-1, v-1, y-1, b-2, h-2, s-2, v-2.
Metronix, Inc., Sub.-Assembly Products, Inc., g, s-1, z-2, d-3.
Mica Insulator Div.-Minnesota Mining & Mfg., Co., j-3.
Mico Instrument Co., h-3.
Microwave Associates, Inc., c-1, q-1.
Midwestern Instruments, Inc., y.
Millitest Corp., y-2.
Minco Products, Inc., v-2.
Minneapolis-Honeywell Regulator Co., Boston Div., d-1, p-1.
Minneapolis-Honeywell Regulator Co., Davies Labs. Div., y.
Minneapolis-Honeywell Regulator Co., Industrial Div., k, x, c-1, d-1, h-1, h-2, p-1, r-1, s-1, u-1, c-2, f-2, g-2, h-2, m-2, s-2, u-2, v-2, w-2, y-2.
Minneapolis-Honeywell Regulator Co., Industrial Product Group, b, f, g, h, k thru n, s, t, x, y, b-1, c-1, d-1, g-1, h-1, k-1, l-1, n-1, o-1, p-1, r-1, s-1, u-1, v-1, w-1, y-1, z-1, b-2, c-2, d-2, f-2, g-2, h-2, j-2, m-2, s-2, u-2, v-2, y-2, f-3, i-3, j-3.
Monogram Precision Industries, q-1.
Motorola Inc., Military Electronics Div., o-1, j-1, t-1, n-2.
George L. Nankervis Co., x, h-1, y-2.
Narda Microwave Corp., The, g-1, q-1, l-2, r-2.
National Electronics, b, c, k, l, b-1, c-1, d-1, h-1, k-1 thru n-1, p-1, r-1, s-1, v-1, y-1, b-2, f-2, m-2, s-2, v-2, b-3, f-3, g-3.
National Instrument Laboratories, Inc., x.
National Spectrographic Labs., Inc., p-2.
New England Scientific Instruments Co., b, k, c-1, d-1, k-1, l-1, n-1, o-1, r-1, s-1, u-1, d-2, m-2, s-2, u-2, v-2, f-3, g-3.
Non-Linear Systems, Inc., s-1, v-1, y-1, o-3.
North Atlantic Industries, Inc., d-2, o-3.
North Hills Electric Co., Inc., i-2.
Northeastern Engrg. Inc., c-1.
Nuclear Corp. of America, j-2.
Nuclear-Chicago Corp., j, q, s, j-2, b-3.
Paul Nurches Co., r-1, b-2.
Ohio Semiconductors, Inc., z, f-2, f-3.
Pace Electrical Instruments Co., Inc., b, k, l, d-1, h-1, r-1, s-1, b-2.
Pacific Scientific Co., a, t-2, u-2, v-2, c-3.
Paco Electronics Co., Inc., v-1, o-3, e-3.
Palmer Thermometers, Inc., v-2.
Patterson, Moos Div.-Universal Winding Co., Inc., i-1.
Perkin-Elmer Corp., i-1.
Peschel Electronics, Inc., f, h-1, k-1.
Phaostron Instrument & Electronic Co., b, k, k-1, r-1, s-1, v-1, b-2.
Philco Corp., Government & Industrial Div.
Phillips Aviation Co.-Marples Gears, x.
Photobell Co., Inc., i, e-2.
Photocon Research Products, l.
Photovolt Corp., c-2, e-2.
Photron Instrument Co., u, d-1, m-2.
Physics Research Laboratories, Inc, b, d-1, l-1, n-1, r-1, s-1, v-1, y-1, o-2, f-3.
Picker X-Ray Corp., j-2, j-3.
Pioneer Tool & Engrg. Co., e thru h, l thru o, w, g-1, n-1 thru t-1, x-1, z-1, o-2, c-2, u-2, e-3.
Polarad Electronics Corp., w, q-1, l-2, n-2, r-2.
Polytechnic Research & Development Co., Inc., c-1, r-2.
Portchester Instrument Corp., c-1, q-1.
Potter Aeronautical Corp., i, u, x, k-2, l-2, s-2.
Power-Tronic Systems Inc., a, m, n, w, x, z, o-1, c-1, f-2, y-2, f-3.
Precise Development Corp., b thru e, g, l, s, d-1, f-1, g-1, k-1, l-1, o-1 thru t-1, v-1, w-1, y-1, z-1, o-2, m-2, n-2, o-3, f-3, g-3.
Precision Apparatus Co., Inc., v-1, o-3, e-3.
Pyrometer Instrument Co., Inc., h-2, u-2, v-2.
Q. V. S. Inc., b, c, k, l d-1, k-1, r-1, b-2, u-2.
Quan-Tech Labs., o, h-3.
Radar Design Corp., q-1, h-3.
Radiation Instrument Development Lab., Inc., i, j, q, j-2.
Rawson Electrical Instrument Co., b, k, z, k-1, r-1, s-1, v-1, u-2, f-3.
Revere Corp. of America, x.
Rixon Electronics Inc., x-1.
Rochester Mfg. Co. Inc., b.
Milton Roy Co., z, c-2.
Arthur C. Ruge Associates, Inc., v-2.
Sage Labs., Inc., h-3.
Sanborn Co., n, c-1, g-2, f-3.
Sangamo Electric Co., g-3.
Santa Barbara Research Center, i-1.
Schutte & Koerting Co., x.
Scientific Instrument Co., g-2, v-2.
Scientific-Atlanta, Inc., l, o-2.
H. H. Scott, Inc., e, l, o, p-2, c-3.
Seco Mfg. Co., o-3.
Shallcross Mfg. Co., f, k, l, d-1, k-1, n-1, y-1.
Simpson Electric Co., b, c, k, l, r, w, d-1, k-1, l-1, n-1, s-1, v-1, w-1, y-1, b-2, u-2, v-2, e-3, f-3.
Slaughter Co., Inc., f.
A. O. Smith Corp., Smith-Erie Div., x.
Snap-On-Tools Corp., s-2.
Solar Aircraft Co., c-1.
Solartron Inc., x-1, z-1, c-2, d-2.
Southwestern Industrial Electronics Co., g, h, l, o, s, d-1, g-1, h-1, k-1, n-1, p-1, s-1, t-1, y-1, c-2, s-2, u-2, o-3, e-3.
Space Corp., w-2.
Specialty Engrg. & Electronics Co., p, q, v-1, j-2.
Sperry Microwave Electronics Co., Div.-Sperry Rand Corp., q-1, f-2.
Standard Controls, Inc., x, g-2.
Stoddart Aircraft Radio Co., Inc., w.
Strand Engrg. Co., q.
H. W. Sullivan Ltd., e-1, s-1, w-1.
Sun Electric Corp., Aeronautical Div., b thru e, k, l, r, d-1, k-1, r-1, s-1, t-1, z-1, o-2, b-2, n-2, u-2.
B. K. Sweeney Mfg. Co., y-2.
Systron Corp., h, i, r, u, x, o-1, c-1, d-2, g-2, k-2, l-2, s-2, w-2, x-2, y-2.
W. A. Taylor & Co., c-2.
Technical Apparatus Builders, b, k, s, h-1, r-1, s-1, w-1.
Technology Instrument Corp., g-1, d-2, g-2, o-3, e-3.
Telectro Industries Corp., w, x-1, y-1, p-2, o-3.
Telerad Mfg. Corp., c-1, q-1.
Teletronic Lab. Inc., c-1.
Tempo Instrument Inc., x-2.
Tensitron, Inc., t-2.
Thermo Electric Co., Inc., s-1, h-2, u-2.
Theta Instrument Corp., d-2.
Thiokol Chemical Corp., z.
Thwing-Albert Instrument Co., h-2, u-2, v-2.
Torque Controls Inc., t-2, y-2.
Towaco Electronics, n.
Trans-Sonics, Inc., x, g-2, v-2.
Trio Laboratories, Inc., n-1, d-2, o-3.
Triplett Electrical Instrument Co., b, c, k, l, k-1, n-1, r-1, s-1, v-1, x-1, y-1, z-1, o-2, o-3, e-3, f-3.
Varo Mfg. Co., Inc., c-1, s-2.
Victor R. F. & Microwave Co., q-1, z-1, d-2, h-3.
Wacline, Inc., b, c, e, k, l, r, s, c-1, k-1, r-1, s-1, v-1, y-1, z-1, o-2, b-2, n-2, p-2, s-2, u-2, x-2.
Waldom Electronics Inc., c, k, l, r, s, y-1, o-2.
Wallace & Tiernan Inc., x, c-2, g-2, w-2, y-2.
Waltham Electronics Corp., o-1, t-1, e-3.
Waltham Engrg. Corp., a, r, x-2.
Waltham Precision Instrument Co., r, x-2.
Wang Labs., Inc., c-1.
Waugh Engrg. Co., x, s-2.
Waveline, Inc., c-1, q-1, r-2.
Weinschel Engrg., n-2.
Weksler Instruments Corp., g-2, v-2.
West Instrument Corp., h-1, r-1, s-1, t-2, m-2, u-2, v-2.
Westberg Mfg. Co., s-2.
Westinghouse Electric Corp., b, k-1, l-1, r-1, s-1, y-1, z-1, j-2, u-1, e-3, f-3, g-3, i-3, j-3.
Weston Instruments, Div.-Daystrom, Inc., b, c, g, i, k, l, r, t, v, z, b-1, d-1, f-1, g-1, k-1 thru n-1, p-1, r-1 thru w-1, y-1, z-1, b-2, d-2, k-2, l-2, m-2, o-2, p-2, s-2, u-2, v-2, o-3, e-3, f-3.
Westronics Inc., x, c-1, h-1, c-2, g-2, h-2, j-2 thru m-2, s-2, t-2, u-2, w-2, x-2, d-3.
Wintronics, d-2.
Wollensak Optical Co., v, b-1.
Yellow Springs Instrument Co., The, v-2.
Zoomar Inc., b-1, m-1, e-2.

MICA PLATE & SHEET

Allied Plastics Supply Corp.
Bram Metallurgical & Chemical Co.
Continental Diamond Fibre Corp.
Ford Radio & Mica Corp.
Integrated Mica Corp.
Magnetic Shield Div. Perfection Mica Co.
Mica Fabricating Co.
Micacraft Products Inc.
Minnesota Mining & Mfg. Co.
Spruce Pine Mica Co., Inc.
Sylvania Electric Products Inc., Parts Div.
United Mineral & Chemical Corp.
Westinghouse Electric Corp.

MICROMANOMETERS

Consolidated Electrodynamics Corp.
Dynametrics Corp.
Flow Corp.
Wallace & Tiernan Inc.

MICROMETERS, ELECTRONIC

Curtiss-Wright-Corp., Electronics Div.
J. W. Dice Co.
Electro Products Laboratories, Inc.
Federal Products Corp.
Land-Air Inc.
Precise Development Corp.
Weston Instruments, Div.-Daystrom, Inc.

MICRO-OHMMETERS

Associated Research, Inc.
Avtron Mfg., Inc.
James G. Biddle Co.
Curtiss-Wright Corp., Electronics Div.
J. W. Dice Co.
Electro Instruments, Inc.
Leeds & Northrup Co.

MICROPHONE CONNECTORS
See CONNECTORS, MICROPHONE

MICROPHONE STANDS
See STANDS, MICROPHONE

MICROPHONES

Atlantic Research Corp.
B & K Instruments, Inc.
Curtiss-Wright Corp., Research Div.
Electronic Applications, Inc.
General Cement Mfg. Co., Div.-Textron, Inc.
General Coil Products Corp.
International Research Associates
Ling Electronics, Inc.
National Pneumatic Co., Inc., Holtzer-Cabot Divs.
Perry Plastics, Inc.
Photocon Research Products
Roanwell Corp.

Shure Brothers, Inc.
Universal Microphone Co.

MICROSCOPES, ELECTRON

Instruments Div.-Philips Electronics, Inc.
New England Scientific Instruments Co.
Philco Corp., Government & Industrial Div.
Telechrome Mfg. Corp.

MICROSCOPES, OPTICAL

American Optical Co., Instrument Div.
***BAUSCH & LOMB OPTICAL CO.**
Buhl Optical Co.
Eder Instrument Co., Inc.
Edmund Scientific Co.
***ENGIS EQUIPMENT CO.**
Fisher Scientific Co.
Gaertner Scientific Corp., The
Gordon Enterprises
Lieco, Inc.
New England Scientific Instruments Co.
Opto-Metric Tools, Inc.

MICROWAVE ABSORBERS

ACF Industries Inc.
Aircom Inc.
Airtron Inc., Div.-Litton Industries
Chemalloy Electronics Corp.
DBM Research Corp.
Demornay-Bonardi
Douglas Microwave Co., Inc.
Emerson & Cuming, Inc.
Filmohm Corp.
B. F. Goodrich Co., The
Lieco, Inc.
Lockheed Aircraft Corp., Missiles & Space Div.
McMillan Industrial Corp.
Microwave Associates, Inc.
Monogram Precision Industries
Radar Design Corp.

MICROWAVE ACCESSORIES

ACF Industries Inc.
Actuation Research Corp.
Ainslie Corp.
Aircom Inc.
Aircom Inc. of New Jersey
Aircraft Armaments, Inc.
Airtron Inc., Div.-Litton Industries
Alford Mfg. Co.
Allied Research & Engrg., Div.-Allied Record Mfg. Co.
Amerac Inc.
American Machine & Foundry Co., Government Products Group
American Machine & Foundry Co., Greenwich
Antenna & Radome Research Associates
Atlantic Instrument Corp., Sub.-American Electronics, Inc.
W. A. Beauchaine & Sons Inc.
Bendix Aviation Corp., York Div.
Bogart Mfg. Corp.
Budd Stanley Co. Inc.
Budelman Electronics Corp.
California Technical Industries, Div.-Textron Inc.
Chemalloy Electronics Corp.
Demornay-Bonardi
Diamond Antenna & Microwave Corp.
Douglas Microwave Co., Inc.
Electronic Communications, Inc.
Elsin Electronics Corp.
Emerson & Cumings, Inc.
Empire Products Sales Corp.
Engelhard Industries, Inc.
Engrg. Associates
FXR, Inc.
Gabriel Co., The, Gabriel Electronics Div.
General Communication Co.
Hewlett-Packard Co.
Houston Fearless Corp.
Walter J. Hyatt Co., The
I-T-E Circuit Breaker Co.
ITT Labs.
***KEARFOTT CO., INC., MICROWAVE DIV.**
Litton Industries, Inc.
Lockheed Aircraft Corp., Missiles & Space Div.
Mark Products Co.
Meridian Metalcraft, Inc.
Microlab
Microwave Associates, Inc.
Monogram Precision Industries
Motorola Inc., Military Electronics Civ.
N. R. K. Mfg. & Engrg. Co.
Omega Labs., Inc.
Philco Corp., Government & Industrial Div.
Polytechnic Research & Development Co., Inc.
Radar Design Corp.
Radiatronics, Inc.
Reeves Instrument Corp.
Sage Labs., Inc.
Sanders Associates, Inc.
Special Instruments Div., British Industries Corp.
Strand Engrg. Co.
Tapco Group, Thompson-Ramo-Wooldridge Inc.
Telerad Mfg. Corp.
Thermal Refractories Corp.
Turbo Machine Co.
Twin Coach Co., Aircraft-Missiles
United Aircraft Products, Inc.
Varian Associates
Victor R. F. & Microwave Co.
Walworth Co. Electronics Div.
Waveline, Inc.
Weinschel Engrg.

MICROWAVE ASSEMBLIES
See ASSEMBLIES, MICROWAVE

MICROWAVE COUPLERS, DIRECTIONAL
See COUPLERS, DIRECTIONAL, MICROWAVE

MICROWAVE FLANGES
See FLANGES, MICROWAVE

MICROWAVE HORNS
See HORNS, MICROWAVE

MICROWAVE ISOLATORS
See ISOLATORS, MICROWAVE

MICROWAVE PARABOLAS
See PARABOLAS, MICROWAVE

MICROWAVE PASSIVE REPEATERS
See REPEATERS, PASSIVE, MICROWAVE

MICROWAVE REPEATERS
See REPEATERS, MICROWAVE

MICROWAVE SHUTTERS
See SHUTTERS, MICROWAVE

MICROWAVE SLIDING LOADS
See SLIDING LOADS, MICROWAVE

MICROWAVE TRANSMISSION LINES
See TRANSMISSION LINES, MICROWAVE

MIDFRAME SECTIONS

American Machine & Foundry Co., Government Products Group
Benson Mfg., Co., The
Clark-Aiken Co., The
Diversey Engrg. Co.
Dresser Mfg. Div., Dresser Industries, Inc.
Fletcher Mfg. Co., Inc., The
Ludwig Honold Mfg. Co.
M. W. Kellogg Co., The
Longren Aircraft Co., Inc.
Mercury Tool & Mfg. Corp.
Monogram Precision Industries
Piasecki Aircraft Corp.
Royal Industries, Inc.
Solar Aircraft Co.
Tapco Group, Thompson-Ramo-Wooldridge Inc.
Turbo Products, Inc.

MIDFRAME SECTIONS, AXIAL FLOW

Dresser Mfg. Div., Dresser Industries, Inc.
Fletcher Mfg. Co., Inc., The
Monogram Precision Industries
Piasecki Aircraft Corp.
Tapco Group, Thompson-Ramo-Wooldridge Inc.
Turbo Products, Inc.

MILITARY TEST UNITS, ACCELERATION
See TEST UNITS, ACCELERATION, MILITARY

MILLIOHMMETERS

Associated Research, Inc.
James G. Biddle Co.
Bristol Co., The
Buhl Optical Co.
Curtiss-Wright Corp., Electronics Div.
Electro Instruments, Inc.
Greibach Instruments Corp.
Keithley Instruments, Inc.
National Electronics
New England Scientific Instruments Co.
Shallcross Mfg. Co.
Weston Instruments, Div.-Daystrom, Inc.

MIRRORS, INSPECTION

Semon Bach & Co.
***BAUSCH & LOMB OPTICAL CO.**
Blowers Inc.
Buhl Optical Co.
Corbin Products Div.
Dell Optics Co., Ltd.
Eder Instrument Co., Inc.
***ELECTROSNAP CORP.**
***ENGIS EQUIPMENT CO.**
J. W. Fecker, Inc.
Liberty Mirror Div., Libbey-Owens-Ford Glass Co.
O & S Research, Inc.
Pacific Universal Products Corp.
Republic Lens Co. Inc.
Singer Mfg. Co., The, Military Products Div.
Sterling Glass Corp.
Tinsley Labs., Inc.
Ullman Devices Corp.

MIRRORS, PRISMS, LENSES
See LENSES, PRISMS, MIRRORS

MIRRORS, SPECIAL PURPOSE

America Optical Co., Instrument Div.
Atlantic Research Corp.
Semon Bache & Co.
***BAUSCH & LOMB OPTICAL CO.**
Blowers Inc.
Corning Glass Works
Davidson Mfg., Co., Inc.
Dell Optics Co., Ltd.
***ELECTROSNAP CORP.**
J. W. Fecker, Inc.
Gaertner Scientific Corp., The
Gordon Enterprises
Green Rectifier Co.
Haller, Raymond & Brown Inc. Div., Singer Mfg. Co.
Kollmorgen Optical Corp.
Liberty Mirror Div., Libbey-Owens-Ford Glass Co.
Northrop Corp., The Nortronics Div.
O & S Research, Inc.
Optical Coating Lab., Inc.
Pacific Universal Products Corp.
Red Lion Cabinet Co., Redco Tool Div.
Republic Aviation Corp.
Republic Lens Co. Inc.
Singer Mfg. Co., The, Military Products Div.
Sterling Glass Corp.
Ullman Devices Corp.
Valpey Crystal Corp.
Van Keuren Co.
Wollensak Optical Co.
Zenith Optical Laboratory

MISSILE BOOSTERS

Aerolab Development Co.
Alco Products, Inc.
American Machine & Foundry Co., Government Products Group
Astrodyne, Inc.
Atlantic Research Corp.
Auto Specialties Mfg. Co., Inc.
E. W. Bliss Co.
Bridgeport Brass Co.
California Aircraft Products
Chrysler Corp., Defense Operations Div.
Cooper Development Corp., Sub-Marquardt Aircraft Co.
Curtiss-Wright Corp.-Wright Aeronautical Div.
Diversey Engrg. Co.
Dresser Mfg. Div., Dresser Industries, Inc.
Dynamic Devices, Inc.
Electric Heater Co., The
Ferris-Mfg. Co., The
Fulton-Irgon Corp., The
General Electric Co., Apparatus Sales Div.
Hahn & Clay
Hercules Powder Co.
Hicks Corp., The
Hufford Corp., The
Ingersoll Kalamazoo Div., Borg-Warner Corp.
Kaiser Metal Products, Inc.-Fleetwings Div.
M. W. Kellogg Co., The
Lockheed Aircraft Corp., Missiles & Space Div.
Newbrook Machine Corp.
Norris-Thermador Corp.
Oerlikon Tool & Arms Corp. of America
Portland Copper & Tank Works Inc.
Pressed Steel Tank Co.
Reaction Motors Div., Thiokol Chem. Corp.
Red Lion Cabinet Co., Redco Tool Div.
Republic Aviation Corp.
***RHEEM MFG. CO., DEFENSE & TECHNICAL PRODUCTS DIV.**
Rohm & Haas Co., Redstone Arsenal Research Div.
Solar Aircraft Co.
Thiokol Chemical Corp.
Twin Coach Co., Aircraft-Missiles
United States Chemical Milling Corp.
Universal Moulded Products Corp.
Veet Industries
Waste King Corp., Technical Products Div.
Wayne Pump Co., The, Div.-Symington Wayne Corp.
Wheland Co., The

MISSILE CONTROL GOVERNORS
See GOVERNORS, MISSILE CONTROL

MISSILE FIRE STANDS
See FIRE STANDS, MISSILE

MISSILE FRAMES

ACF Industries Inc.
Aerojet-General Corp.
Aerolab Development Co.
Aeronca Mfg. Corp.
American Car & Foundry, Div.-ACF Industries, Inc.
American Machine & Foundry Co., Government Products Group
Basco Metal Products, Inc.
Basic Tool Industries, Inc.
Benson Mfg., Co., The
E. W. Bliss Co.
Brooks & Perkins, Inc.
Chrysler Corp., Defense Operation Div.
Clark-Aiken Co., The
Colonial Aircraft Corp.
Cooper Development Corp., Sub.-Marquardt Aircraft Co.
Cromer Mfg. & Engrg., Inc.
Curtiss-Wright Corp., Santa Barbara Div.
Diversey Engrg. Co.
Dresser Mfg. Div., Dresser Industries, Inc.
Electric Heater Co., The
Fairchild Astrionics Div., Fairchild Engine & Airplane Corp.
Farwell Metal Fabricating
Ferris-Mfg., The
Fletcher Mfg. Co., Inc., The
General Electric Co., Missile & Space Vehicle Dept.

Goodyear Aircraft Corp.
Ludwig Honold Mfg. Co.
Markey-Moore Associates
Hufford Corp., The
Hughes Aircraft Co.
Intercontinental Mfg. Co., Inc.
Kaiser Aircraft & Electronics, Div.-Kaiser Industries Corp.
Kaiser Metal Products, Inc.-Fleetwings Div.
M. W. Kellogg Co., The
Kentucky Metal Products Co.
Ladish Co.
***LAVELLE AIRCRAFT CORP.**
Lockheed Aircraft Corp., Missiles & Space Div.
Longren Aircraft Co., Inc.
Martin Co., The, Denver Div.
Mercury Tool & Mfg. Corp.
Minneapolis-Honeywell Regulator Co., Ordnance Div.
Minnesota Mining & Mfg. Co.
Monogram Precision Industries
Monrovia Aviation Corp.
Narmco Mfg. Co.
Northrop Corp., The, Nortronics Div.
Opelika Welding, Machine & Supply Inc.
Piasecki Aircraft Corp.
Portland Copper & Tank Works Inc.
Precision Shapes, Inc.
Precision Sheet Metal, Inc.
Red Lion Cabinet Co., Redco Tool Div.
Republic Aviation Corp.
***RHEEM MFG. CO., DEFENSE & TECHNICAL PRODUCTS DIV.**
Rohr Aircraft Corp.
Royal Industries, Inc.
Ryan Aeronautical Co.
Santa Anita Engrg. Co.
Sequoia Wire & Cable Co., Div.-Mandrel Industries, Inc.
Stanley Aviation Corp.
Tapco Group, Thompson-Ramo-Wooldridge Inc.
Turbo Products, Inc.
Twigg Industries
U. S. Industries, Inc.
Universal Moulded Products Corp.
Wayne Pump Co., The, Div.-Symington Wayne Corp.
Welded Construction Inc.
Wheland Co., The

MISSILE SYSTEMS, AUTOMATIC CHECK-OUT EQUIPMENT

***BENDIX PRODUCTS DIV., BENDIX AVIATION CORP.**

MISSILES, GROUND CHECK-OUT EQUIPMENT

***AC ELECTRONICS DIV., GENERAL MOTORS CORP.**
ACF Industries Inc.
Accessory Products Co., Div.-Textron Inc.
Acco Equipment Div., American Chain & Cable Co. Inc.
Acromag Inc.
Adler Electronics, Inc.
Aeronca Mfg. Corp.
Aircraft Armaments, Inc.
***AIRESEARCH MFG. CO., DIV.-THE GARRETT CORP.**
Alto Scientific Co., Inc.
Amelco, Inc.
American Bosch Arma Corp.
American Electronics, Inc.
American Machine & Foundry Co., Government Products Group
Arnolt Corp.
Associated Engineers, Inc.
Atlas Precision Products, Co.
Avien, Inc.
Avtron Mfg., Inc.
Basic Tool Industries, Inc.
Beckman-Systems Div.
Bell Aircraft Corp., Niagara Frontier Div.
Belock Instrument Corp.
Bendix Aviation Corp., Eclipse-Pioneer Div.
Bendix Aviation Corp., York Div.
Bendix Products Div.,-Missiles, Bendix Aviation Corp.
Bendix Radio Div., Bendix Aviation Corp.
Bendix Utica Div., Bendix Aviation Corp.
Benson Mfg., Co., The
Bernco Engrg. Corp.
Bogue Electric Mfg. Co.
Brown Engrg. Co., Inc.
Burton-Rodgers, Inc.
California Technical Industries, Div.-Textron Inc.
Chalco Engrg. Corp.
Chicago Aerial Industries, Inc.
Chrysler Corp., Defense Operations Div.
Collins Radio Co.
Colonial Aircraft Corp.
Components Corp.
Consolidated Diesel Electric Corp.
Control Engrg. Co., Div. Jervis B. Webb Co.
Cooper Development Corp., Sub.-Marquardt Aircraft Co.
Craig Systems, Inc.
Cromer Mfg. & Engrg., Inc.
Curtiss-Wright Electronics Div., IMI Branch
Curtiss-Wright Corp., Santa Barbara Div.
Dalmotor Div., Yuba Consolidated Industries, Inc.
Data-Control Systems, Inc.
Datran Electronics, Div.-Mid-Continent Mfg. Co., Inc.
Dynametrics Corp.
Electro Instruments, Inc.
***ELECTROSNAP CORP.**
Electro-Mechanical Products Co.
Electronic Communications, Inc.
Emerson Electric Mfg. Co., The, Electronics & Avionics Div.
Emerson Radio & Phonograph Corp.
Fairchild Astrionics Div., Fairchild Engine & Airplane Corp.
Firestone Tire & Rubber Co., The, Guided Missile Div.
Ford Instrument Co., Div.-Sperry Rand Corp.
G. W. Galloway Co.
General Communication Co.
General Electric Co., Apparatus Sales Div.
General Electric Co., Computer Dept.
General Electric Co., Missile & Space Vehicle Dept.
Gilfillan Bros. Inc.
Goodyear Aircraft Corp.
Gordon Enterprises
Greer Hydraulics, Inc.
Gremco, Inc.
Guided Missile Div.-DeHavilland Aircraft of Canada, Ltd.
Hallicrafters
Hamilton Standard, Div.-United Aircraft Corp.
***A. W. HAYDON CO., THE**
Hazeltine Electronics Div.-Hazeltine Corp.
Heiland Div.-Minneapolis-Honeywell
Hufford Corp., The
Hughes Aircraft Co.
Walter J. Hyatt Co., The
Hycon Mfg. Co.
ITT Federal Div., International Telephone & Telegraph Corp.
Industrial Engrg. Corp.
Industrial Tools Mfg. Corp., Sub.-Pendleton Tool Industries, Inc.
Intercontinental Dynamics Corp.
Jack & Heintz, Inc.
Jeta, Inc.
Kahn & Co., Inc.
Kaiser Aircraft & Electronics, Div.-Kaiser Industries Corp.
***KEARFOTT CO., INC.**
Kollmorgen Optical Corp.
Leach Corp.
Lear, Inc.
Lear, Inc., Grand Rapids Div.
Lockheed Aircraft Corp., Missiles & Space Div.
Marquardt Aircraft Co.
Martin Co., The, Denver Div.
Master Specialties Co.
W. L. Maxson Corp., The
Milgo Electronic Corp.
Minneapolis-Honeywell Regulator Co.-Aeronautical Div.
Minneapolis-Honeywell Regulator Co., Industrial Product Group
Minneapolis-Honeywell Regulator Co., Ordnance Div.
Monogram Precision Industries
Motorola Inc., Military Electronics Div.
George L. Nankervis Co.
Northrop Corp., The, Nortronics Div.
Nuclear Products-Erco Div.-ACF Industries, Inc.
On Mark Couplings, Inc.
Optimized Devices, Inc.
Otis Elevator Co., Electronic Div.
***PACKARD-BELL ELECTRONICS CORP.**
Ralph M. Parsons Co., The, Electronics Div.
Perkin-Elmer Corp.
Philco Corp., Government & Industrial Div.
Polarad Electronics Corp.
Radiation, Inc.
Ramo-Wooldridge Div., Thompson-Ramo-Wooldridge of Calif.
Raytheon Mfg. Co., Government Equipment Div.
Republic Aviation Corp.
***RHEEM MFG. CO., DEFENSE & TECHNICAL PRODUCTS DIV.**
Royal Industries, Inc.
Rucker Co., The
Sargent Engrg. Corp.
Schaffer Air Industries, Inc.
Seeburg Corp., The
Sequoia Wire & Cable Co.-Div.-Mandrel Industries, Inc.
Servo Corp. of America
Servomechanisms, Inc.
Singer Mfg. Co., The, Military Products Div.
Skiatron Electronics & Television Corp.
Space Corp.
Specialties, Inc.
Sperry Microwave Electronics Co., Div.-Sperry Rand Corp.
Stanley Aviation Corp.
Stratos, Div.-Fairchild Engine & Airplane Corp.
Stromberg-Carlson Div.-General Dynamics Corp.
Sun Electric Corp., Aeronautical Div.
Systron Corp.
Talley Corp., The
Tapco Group, Thompson-Ramo-Wooldridge Inc.
Tele-Dynamics Inc.
Theta Instrument Corp.
Thiokol Chemical Corp.
United Aircraft Products, Inc.
United Control Corp.
United Electrodynamics, Inc.
United Mfg. Co., Div., The W. L. Maxson Corp.
U. S. Industries, Inc.
U. S. Science Corp., Div.-Topp Industries, Inc.
Varo Mfg. Co., Inc.
Vickers Inc., Div.-Sperry Rand
Vickers Inc., Marine & Ordnance Dept., Machinery Hydraulics Div.
Victor Adding Machine Co.
Virginia Electronics Co., Inc.
Vitro Labs.
Waldorf Electronics, Div.-F. C. Huyck & Sons
Waste King Corp., Technical Products Div.
Wayne Pump Co., The, Div.-Symington Wayne Corp.
Webcor, Inc., Government Div.
Welded Construction Inc.
Western Design, Div.-U. S. Industries, Inc.; Santa Barbara Div.
Western Gear Corp.
Wintronics

MISSILES, GROUND HANDLING EQUIPMENT
See GROUND HANDLING EQUIPMENT, MISSILES

MISSILES GUIDANCE EQUIPMENT
See GUIDANCE EQUIPMENT, MISSILES

MOBILE COMPRESSOR ASSEMBLIES
See COMPRESSOR ASSEMBLIES, MOBILE

MODULATORS, MAGNETIC

American Research & Mfg. Corp.
Bradley Semiconductor Corp.
Emerson Radio & Phonograph Corp.
General Magnetics, Inc.
Guided Missile Div.-DeHavilland Aircraft of Canada, Ltd.
ITT Federal Div., International Telephone & Telegraph Corp.
Lear, Inc.
Levinthal Electronic Products, Inc.
Monogram Precision Industries
Networks Electronic Corp.
Pioneer Tool & Engrg. Co.
RS Electronics Corp.
Southwestern Industrial Electronics Co.
Sperry Microwave Electronics Co., Div.-Sperry Rand Corp.
Talley Corp., The
Telechrome Mfg. Corp.
Torwico Electronics, Inc.
Transonic, Inc.
Webcor, Inc., Government Div.
Westbury Electronics Inc.
Weston Instruments, Div.-Daystrom, Inc.

MODULATORS, PHASE

Bradley Semiconductor Corp.
Centronix Inc.
Cooper Development Corp., Sub.-Marquardt Aircraft Co.
Crosby Laboratories, Inc.
Geotronic Labs., Inc.
ITT Federal Div., International Telephone & Telegraph Corp.
***KEARFOTT CO., INC., MICROWAVE DIV.**
Lear, Inc., Grand Rapids Div.
W. L. Maxson Corp., The
Miratel, Inc.
Monogram Precision Industries
Motorola Inc., Military Electronics Div.
Pioneer Tool & Engrg. Co.
Telechrome Mfg. Corp.
Victor R. F. & Microwave Co.

MODULATORS, PULSE

AMP Inc.
Alto Scientific Co., Inc.
Amerac Inc.
FXR, Inc.
Federal Mfg. & Engrg. Corp.
Hewlett-Packard Co.
ITT Federal Div., International Telephone & Telegraph Corp.
***KEARFOTT CO., INC., MICROWAVE DIV.**
Levinthal Electronic Products, Inc.
Magnetic Research Corp.
Manson Labs., Inc.
Marconi Instruments
W. L. Maxson Corp., The
Miratel, Inc.
Monogram Precision Industries
Motorola Inc., Military Electronics Div.
Omega Labs., Inc.
RS Electronics Corp.
Systems Inc.
Talley Corp., The
Telechrome Mfg. Corp.
Varian Associates
Weinschel Engrg.

MOLDED PLASTIC GRILLES
See GRILLES, MOLDED PLASTIC

MOLDERS, PLASTIC

Accurate Electronics Corp., Dept. D
Airtronics International Corp.
American Aerophysics Corp.
American Molded Products Co.
Associated Engrg. Corp.
Brook Molding Corp.
Chemold Co.
Chemplast, Inc.
Chicago Molded Products Corp.
Collectron Corp.
Curtiss-Wright Corp.-Utica Div.
Dimco-Gray Co.

Emerson Plastics Corp.
First Electronics Corp., The
Fletcher Mfg. Co., Inc., The
Flexrock Co.
Form-It Products, Inc.
Garde Mfg. Co.
Hardman Tool & Engrg., Co.
Haveg Industries, Inc.
Hydro Molding Co., Inc.
Joclin Mfg. Co.
Kerrco Products
H. Koch & Sons
M & Q Plastic Products
Minnesota Mining & Mfg. Co.
Molding Corp. of America
J. M. Ney Co., The
Perry Plastics, Inc.
Plastic Age Sales, Inc.
Milton Ross Metals Co., The
Russell Reinforced Plastics Corp.
St. Regis Paper Co., Panelyte Div.
Sylvania Electric Products Inc., Parts Div.
Universal Moulded Products Corp.

MOLYBDENUM SHEETS
See SHEETS, MOLYBDENUM

MONITORING EQUIPMENT, TRANSMISSION

American Machine & Foundry Co., Government Products Group
American Machine & Foundry Co., Greenwich
Bendix Radio Div., Bendix Aviation Corp.
Centronix Inc.
Consolidated Electrodynamics Corp.
James Cunningham Son & Co., Inc.
Douglas Microwave Co., Inc.
Electronic Communications, Inc.
Hammarlund Mfg., Co., Inc.
Helipot Div.-Beckman Instruments Inc.
ITT Labs.
ITT-Kellogg
Kauke & Co.
Minneapolis-Honeywell Regulator Co., Davies Labs. Div.
Minneapolis-Honeywell Regulator Co., Industrial Product Group, d, e, g.
Miratel, Inc.
Motorola Inc., Military Electronics Div.
National Pneumatic Co., Inc., Holtzer-Cabot Divs.
***PACKARD-BELL ELECTRONICS CORP.**
Philco Corp., Government & Industrial Div.
Radiation, Inc.
Scientific-Atlanta, Inc.
Sperry Microwave Electronics Co., Div.-Sperry Rand Corp.
Sun Electric Corp., Aeronautical Div.
Telechrome Mfg. Corp.
Television Utilities Corp.
Towaco Electronics Co.
U. S. Science Corp., Div.-Topp Industries, Inc.
Waltham Electronics Corp.
Waterman Products Co., Inc.
Webcor, Inc., Government Div.

MONITORS
a. AM & FM Transmitter
b. Antenna Phase
c. Audio
d. Frequency
e. Line & Program
f. Modulation
g. Phase
h. RF Power
i. Service
j. Shift
k. Waveform

Airpax Electronics Inc., Seminole Div., d.
American Electronics, Inc., Taller & Cooper Div., e.
American Machine & Foundry Co., Government Products Group, b, d, k.
Antlab Inc., d, f.
Beckman Instruments, Inc., Berkeley Div., d.
James G. Biddle Co., d.
Briggs Associates, Inc., k.
Centronix Inc., a thru k.
Dage Television Div., Thompson Ramo Wooldridge, Inc., k.
Divco-Wayne Electronics, Div.-Divco-Wayne Corp., a, c, d.
Electric Regulator Corp., d, e, g.
Electronic Communications, Inc., g, h.
Elgin Micronics Div.-Elgin National Watch Co., c, h.
Erie Resistor Corp., d.
FXR, Inc., f.
Foto-Video Labs., Inc., e, i, k.
Gilfillan Bros. Inc.
Hammarlund Mfg., Co., Inc., c.
Helipot Div.-Beckman Instruments Inc., d, e, g.
Hewlett-Packard Co., d.
Hughes Tool Co., Aircraft Div.
Industrial Test Equipment Co., g.
Kahn & Co., Inc., d.
Lampkin Labs., Inc., M. R. Div., d, f.
Land-Air Inc., d, g.
Langevin Div., W. L. Maxson Corp., The
Litton Industries, Maryland Div., f.
Magee-Bralla & Associates
Marconi Instruments, a, d, f, h, k.
Minneapolis-Honeywell Regulator Co., Davies Labs. Div., a, c, e, k.
Minneapolis-Honeywell Regulator Co., Industrial Product Group, d, e, g.
Miratel, Inc., c, h, k.
Motorola Inc., Military Electronics Div., a, d, f, g, h, k.
National Pneumatic Co., Inc., Holtzer-Cabot Divs., a.
Philco Corp., Government & Industrial Div., a, d, f, g, h.
Portchester Instrument Corp.
Radar Design Corp., h.
Royal Industries, Inc., b.
Scam Instrument Corp., The, i.
Scientific-Atlanta, Inc., h.
Setchell-Carlson Inc., e.
Sperry Microwave Electronics Co., Div.-Sperry Rand Corp., d, h.
Systron Corp., d, g.
Television Utilities Corp., k.
Theta Instrument Corp., g.
Torwico Electronics, Inc., d.
Towaco Electronics Co., d.
U. S. Science Corp., Div.-Topp Industries, Inc., b, g, h.
Varian Associates, a, d, g, h, k.
Waltham Electronics Corp., a, f.
Waterman Products Co., Inc., d, f, k.
Webcor, Inc., Government Div., d.
Wintronics, g, j.

MONOPROPELLANTS

Aerojet-General Corp.
Air Products, Inc.
Allied Chemical Corp., Nitrogen Div.
American Rocket Co.
Atlantic Research Corp.
Becco Chemical Div.-Food Machinery & Chemical Corp.
Dynamic Devices, Inc.
Fulton-Irgon Corp., The
Olin Mathieson Chemical Corp., Energy Div.
Pennsalt Chemicals Corp.
Rohm & Haas Co., Redstone Arsenal Research Div.
Shell Chemical Corp., Industrial Chemicals Div.
Special Projects Lab., Food Machinery & Chemical Corp.
Thiokol Chemical Corp.
Topper Mfg. Co., Inc.

MOTION PICTURE PROCESSING EQUIPMENT
See PROCESSING EQUIPMENT, MOTION PICTURE

MOTOR BRUSHES
See BRUSHES, MOTOR

MOTOR & GENERATOR BLOWERS
See BLOWERS, MOTOR & GENERATOR

MOTOR & GENERATOR CLUTCHES
See CLUTCHES, MOTOR & GENERATOR

MOTOR GENERATOR SETS, AC-DC

***MOTOR GENERATOR CORP.**

MOTOR & GENERATOR STATORS
See STATORS, MOTOR & GENERATOR

MOTORS
a. Clock
b. Control
c. Electric
d. Fluid
e. Fractional HP
f. Hydraulic
g. Hysteresis
h. Instrument
i. Miniature
j. Servo
k. Timing-Regulated, Constant Speed
l. Turntable
m. Universal

ACF Industries Inc., f.
Adel Precision Products of California, Div.-General Metals Corp., d, e, f.
Advanced Products Co., The, a, e, g, h, i, k.
Airborne Accessories Corp., c, e, j.
***AIRESEARCH MFG. CO., DIV.-THE GARRETT CORP.**, b, c, e, g thru k.
Air-Marine Motors, Inc., c, e, g, h.
Alco Valve Co., c, e, f.
R. C. Allen Aircraft Instr. Div., R. C. Allen Bus. Machines, Inc., c, g, h, i.
American Aeroparts, c, d, f, j.
American Bosch Arma Corp., b thru f, j.
American Brake Shoe Co., f.
American Brake Shoe Co., Kellogg Div., f.
American Electronics, Inc., b, c, e, g thru k.
American Electronics, Incorporated, j.
American Electronics, Inc.-Instrument Div., j.
American Machine & Foundry Co., Government Products Group, d, f.
American Measurement & Control, Inc., i, j.
American Rocket Co.
Amglo Corp., b, k.
Ashland Electric Products, Inc., c, e, g.
Atlantic Instrument Corp., Sub.-American Electronics, Inc., h.
Barber-Colman Co., b, c, e, i, j, l.
Bendix Aviation Corp., Eclipse-Pioneer Div., b, h, i, j.
***BENDIX AVIATION CORP., HAMILTON DIV.**, d, f, i, j.
Bendix Aviation Corp., Montrose Div., e.
Bendix Aviation Corp., Red Bank Div., e.
Bendix-Pacific Div., Bendix Aviation Corp., c, e, f, j.
Bodine Electric Co., a, b, c, e, g, h, i, k, m.
Bogue Electric Mfg. Co., j.
Borg Equipment Div., Amphenol-Borg Electronics Corp., e, h.
Bristol Motors Div.-Vocaline Co., of America, Inc., k.
Brook Motor Corp., c.
CELCO (Constantine Engrg. Labs. Co.), e, g, i, j, m.
Cedar Engrg. Div.-Control Data Corp., a, b, c, e, g thru j.
Chicago Pneumatic Tool Co., b, e.
Clifton Precision Products Co., Inc., h, j.
Commercial Shearing & Stamping Co., f.
Continental Electric Co., Inc., c.
Control Data Corp., c, e, g, i, j.
Cornelius Co., The, Aero Div., c thru f.
Cramer Controls Corp., a, b, i.
Dalmotor Div., Yuba Consolidated Industries, Inc., b, c, e, g thru j, m.
Daystrom Transicoil Div., Daystrom Inc., j.
Delco-Remy Div., General Motors Corp., c.
Diehl Mfg. Co.,c, e, h, i, j.
Dresser Mfg. Div., Dresser Industries, Inc.
Dumont Aircraft Fitting Co., j.
Eastern Industries Inc., F.
Thomas A. Edison Inc. Instrument Div.-McGraw-Edison Co., c, h thru k.
Eicor Div.-Scranton, c, e, g, m.
Electric Auto-Lite Co., The, c, e.
Electric Machinery Mfg. Co., c.
Electric Motors & Specialties, Inc., c, e.
Electric Products Co., The, c.
Electronic Applications, Inc., e, g.
Electronic Communications, Inc., b, c, e, j.
Elgin Micronics Div.-Elgin National Watch Co., a, g, i, k.
El Ray Motor Co., Inc., e, i, j, l.
Ford Instrument Co., Div.-Sperry Rand Corp., h, i.
G-M Labs. Inc., e, h, i, j.
General Electric Co., Apparatus Sales Div., b thru g, j, m.
Globe Industries, Inc., b, c, e, g thru k, m.
Graflex Inc., i, j, k.
Greenleaf Mfg. Div., The, Mandrel Ind. Inc., h, j.
Grimes Mfg. Co., e.
Guided Missile Div.-DeHavilland Aircraft of Canada, Ltd., c.
Hamilton Standard, Div.-United Aircraft Corp., f.
Hamilton Watch Co., a, k.
Hamilton Watch Co.-Industrial Div., a, i.
Hannifin Co., Div.-Parker-Hannifin Corp., d.
Hansen Mfg. Co. Inc., a, b, c, h, i, k.
Haskel Engrg. & Supply Co., f.
***A. W. HAYDON CO., THE**, a, b, c, g, h, i, k.
Haydon Div.-General Time Corp., a, b, c, g, h, i, k.
Helipot Div.-Beckman Instruments Inc., j.
Hertner Electric Co., The, b, c, e, g thru k.
E. Vernon Hill & Co., i.
Holtzer-Cabot Div., National Pneumatic Co., Inc., b, c, e, g thru k.
Hoover Electric Co., b, c, e, g thru k, m.
Hughes Tool Co., Aircraft Div., a.
Hupp Aviation Co., f.
Hydraulic Press Mfg. Co., The, Div.-Koehring Co., f.
Induction Motors Corp., b, c, e, g thru l.
Ingraham Co., The, a, g.
Instrument Motors, a, b, d, f thru i, l.
International Register Co., a, c, h, i, k.
Jack & Heintz, Inc., c, e.
***KEARFOTT CO., INC.**, b, c, e thru j.
Kelsey-Hayes Co., c, d, e.
Ketay Dept., Norden Div., United Aircraft Corp., j.
Korda Industries, d, f.
Lamb Electric Co., The, Div.-American Machine & Metals, Inc., b, c, e, g, i, j, l, m.
Land-Air Inc., b, i.
Lear, Inc., b thru j.
Lear, Inc., Grand Rapids Div., b, c, e, h, i, j.
Lear Inc., Lear-Romec Div., c thru f, j.
Leland Airborne Products, Div.-American Machine & Foundry Co., c, j.
Lundy Mfg. Corp., b, c, e, g, h, i.
Luther Mfg. Co., b, e, g thru j.
Lux Clock Mfg. Co., Inc., a.
Minneapolis-Honeywell Regulator Co., Aeronautical Div., e, g, j.
Minneapolis-Honeywell Regulator Co., Industrial Div., h, j.
Minneapolis-Honeywell Regulator Co., Industrial Product Group, h, j.
Minneapolis-Honeywell Regulator Co., Ordnance Div., g.
Motor Appliance Corp., c, e.
Motordyne Inc., b, c, e, g thru m.
Motoresearch Co.
Heinz Mueller Eng. Co. Inc., c, e.
National Pneumatic Co., Inc., Holtzer-Cabot Divs., b, c, e, g thru k.
Oil-Dyne, Inc., d, f.
P. S. P. Engrg. Co., Div.-Induction Motors Corp., j.
Packard Electric Div.-General Motors Corp., c, e.
Paragon Electric Co., a, b, k.
Pesco Products Div.-Borg-Warner Corp., c, e, f.
Pioneer Tool & Engrg. Co., j.
Power Supplies Inc., j.
Racine Hydraulics & Machinery Inc., f.
Raymond Engrg. Lab., Inc., k.
Redmond Co., Inc., c, e, l.
Safety Electrical Equipment Corp., b, c.

Sangamo Electric Co., a, c, g, j, k.
Sargent Engrg. Corp., d, f, j.
Servomechanisms, Inc., Mechatrol Div., b, g thru k.
Sigma Instruments, Inc., h, i.
Singer Mfg. Co., The, Military Products Div., b, c, e, j, k.
Small Motors Inc., b, c, e, h, i, j, m.
A. O. Smith Corp., c, e, m.
Special Projects Lab., Food Machinery & Chemical Corp., d.
Stratos, Div.-Fairchild Engine & Airplane Corp., d, f.
Talley Corp., The, b, c, e.
Tapco Group, Thompson-Ramo-Wooldridge Inc., f, j.
Task Corp., c, e.
Universal Electric Co., b, c, e, h, i, j, m.
Vickers Inc., Div.-Sperry Rand, d, f, i.
Vickers Inc., Marine & Ordnance Dept., Machinery Hydraulics Div., f.
Waltham Engrg. Corp., k.
Watertown Div., The New York Air Brake Co., d, f, j.
Western Design, Div.-U. S. Industries, Inc.; Santa Barbara Div., b, c, e, f, g, k.
Western Gear Corp., c, e, i, j.
Westinghouse Electric Corp., c, e, j, m.
Weston Hydraulics Ltd.-Sub., Borg-Warner Corp., j.
Wincharger Corp., Sub.-Zenith Radio Corp., e, m.
Zenith Radio Corp., c, e.

MOTORS, AC-DC

***ELECTRICAL ENGRG. & MFG. CORP.**

MOUNTING STRIPS
See STRIPS, MOUNTING

MOUNTINGS, METALLIC

Alpitec, Inc.
American Aeroparts
Anchor Metal Spinning Co., The
B. H. Aircraft Co., Inc.
Barry Controls Inc.
Bergen Carbide Co.
E. W. Bliss Co.
Bruce Engrg. Co.
Bud Radio Inc.
Byrne Doors Inc.
California Aircraft Products
Capital City Mfg. Co.
Clark-Aiken Co., The
Colonial Aircraft Corp.
Cornell Deep Drawing Co., Div.-Lanes Industries Corp.
Diversey Engrg. Co.
Federal Shock Mount Corp.-Div. The Korfund Co., Inc.
B. F. Goodrich Industrial Products Co.
J. W. Johnson & Co., Inc.
Kling Metal Spinning & Stamping Co.
Kolcast Industries-Div. Thompson Ramo Wooldridge Inc.
Ladish Co.
Mercury Tool & Mfg. Corp.
***MIRAX CHEMICAL PRODUCTS CORP., METAL CONTAINER DIV.**
Monogram Precision Industries
Penn Keystone Corp.
Piasecki Aircraft Corp.
Precision Shapes, Inc.
Edw. Renneburg & Sons Co.
Robinson Technical Products, Inc.
Stanley-Judd Div.-The Stanley Works
Stone City Products Co.
Teiner Engrg. Corp.
United Mfg. Co., The
U. S. Industries, Inc.
United States Chemical Milling Corp.
Variety Aircraft Corp.

MOUNTINGS, NON-METALLIC

Allied Plastics Supply Corp.
American Aeroparts
American Latex Products Corp.
Barry Controls Inc.
Bushings, Inc.
Colonial Aircraft Corp.
Continental Rubber Works
Cornell Deep Drawing Co., Div.-Lanes Industries Corp.
Crystal-X Corp.
Dayton Rubber Co., The
Diversey Engrg. Co.
Dow-Elco, Inc.
Federal Shock Mount Corp.-Div. The Korfund Co., Inc.
General American Transportation Corp.
Gladding, McBean & Co.
B. F. Goodrich Industrial Products Co.
Hamilton Kent Mfg. Co.
Jodee Plastics Co.
Johns-Manville
J. W. Johnson & Co., Inc.
Minnesota Rubber Co.
***MIRAX CHEMICAL PRODUCTS CORP., METAL CONTAINER DIV.**
Norton Co., New Products Dept.
Orchard Industries, Inc., Actionflex Div.
Piasecki Aircraft Corp.
Rubbercraft Corp. of California
A. T. Stevens Co.
Thermal Refractories Corp.
United States Rubber Co.

MOUNTINGS, VIBRATION & SHOCK

American Aeroparts
American Latex Products Corp.
Anchor Metal Spinning Co., The
Applied Design Co.
Barry Controls Inc.
Bushings, Inc.
Champion Co., The
Colonial Rubber Co.
Continental Rubber Works
Dayton Rubber Co., The
Dow-Elco, Inc.
Federal Shock Mount Corp.-Div. The Korfund Co., Inc.
Felters Co., The
Finn Aeronautical Div., T. R. Finn & Co., Inc.
B. F. Goodrich Industrial Products Co.
Hamilton Kent Mfg. Co.
Johns-Manville
J. W. Johnson & Co., Inc.
Walter Kidde & Co., Inc., Aviation Div.
Litton Industries, Inc.
Litton Industries, Maryland Div.
Lord Mfg. Co.
Lyon Van & Storage Co., Aircraft Div.
MB Mfg. Co.
Mc Dowell-Wellman Companies, The
Menasco Mfg. Co.
Minnesota Rubber Co.
***MIRAX CHEMICAL PRODUCTS CORP., METAL CONTAINER DIV.**
Orchard Industries, Inc., Actionflex Div.
Raybestos-Manhattan, Inc.
Roberts Toledo Rubber Co., The
Robinson Technical Products, Inc.
Rubbercraft Corp. of California
A. T. Stevens Co.
Ucinite Co., The, Div.-United-Carr Fastener Corp.
U. S. Industries, Inc.
United States Rubber Co.

MOUNTS

American Aeroparts
Anchor Metal Spinning Co., The
Antlab Inc.
Barry Controls Inc.
E. W. Bliss Co.
Bruce Engrg. Co.
Bushings, Inc.
Capital City Mfg. Co.
Champion Co., The
Colonial Aircraft Corp.
Cromer Mfg. & Engrg., Inc.
Diversey Engrg. Co.
Dresser Mfg. Div., Dresser Industries, Inc.
Federal Machine Co. Inc.
Federal Shock Mount Corp.-Div. The Korfund Co., Inc.
B. F. Goodrich Industrial Products Co.
Hamilton Kent Mfg. Co.
J. W. Johnson & Co., Inc.
Kolcast Industries-Div. Thompson Ramo Wooldridge Inc.
Ladish Co.
Lord Mfg. Co.
MB Mfg. Co.
Mercury Tool & Mfg. Corp.
***MIRAX CHEMICAL PRODUCTS CORP., METAL CONTAINER DIV.**
Pacific Scientific Co.
Piasecki Aircraft Corp.
Edw. Renneburg & Sons Co.
Robinson Technical Products, Inc.
Rubbercraft Corp. of California
Stainless Inc.
United Mfg. Co., The
Variety Aircraft Corp.
Vinco Corp.
Winder Aircraft Corp. of Florida

MOUNTS, ENGINE

ACF Industries Inc.
Aircraft Mechanics, Inc.
American Aeroparts
American Machine & Foundry Co., Government Products Group
Anchor Metal Spinning Co., The
Applied Design Co.
Barry Controls Inc.
Basic Tool Industries, Inc.
E. W. Bliss Co.
Bruce Engrg. Co.
Bushings, Inc.
Capital City Mfg. Co.
Champion Co., The
Clark-Aiken Co., The
Colonial Aircraft Corp.
Colonial Rubber Co.
Cromer Mfg. & Engrg., Inc.
Curtiss-Wright Corp.-Wright Aeronautical Div.
Diversey Engrg. Co.
Dow-Elco, Inc.
Dresser Mfg. Div., Dresser Industries, Inc.
B. F. Goodrich Industrial Products Co.
Houston Fearless Corp.
J. W. Johnson & Co., Inc.
Kaiser Aircraft & Electronics, Div.-Kaiser Industries Corp.
Kanarr Corp.
Kolcast Industries-Div. Thompson Ramo Wooldridge Inc.
Ladish Co.
***LAVELLE AIRCRAFT CORP.**
Lord Mfg. Co.
MB Mfg. Co.
Mercury Tool & Mfg. Corp.
Oliver Corp., The
Pacific Scientific Co.
Piasecki Aircraft Corp.
Red Lion Cabinet Co., Redco Tool Div.
A. O. Smith Corp.
Solar Aircraft Co.
Southwest Products Co.
Stainless Inc.
Twin Coach Co., Aircraft-Missiles
Washington Aluminum Co., Inc.
Western Arc Welding, Inc.

MOUNTS, SHOCK

American Aeroparts
American Latex Products Corp.
Anchor Metal Spinning Co., The
Applied Design Co.
Barry Controls Inc.
Bushings, Inc.
Champion Co., The
Colonial Rubber Co.
Dayton Rubber Co., The
Dow-Elco, Inc.
Federal Shock Mount Corp.-Div. The Korfund Co., Inc.
Finn Aeronautical Div., T. R. Finn & Co., Inc.
B. F. Goodrich Industrial Products Co.
Hamilton Kent Mfg. Co.
Johns-Manville
J. W. Johnson & Co., Inc.
Kolcast Industries-Div. Thompson Ramo Wooldridge Inc.
Lord Mfg. Co.
MB Mfg. Co.
***MIRAX CHEMICAL PRODUCTS CORP., METAL CONTAINER DIV.**
Orchard Industries, Inc., Actionflex Div.
Pacific Scientific Co.
Roberts Toledo Rubber Co., The
Robinson Technical Products, Inc.
Rubbercraft Corp. of California
Southwest Products Co.
A. T. Stevens Co.
United States Rubber Co.
Winder Aircraft Corp. of Florida

MOUNTS, THERMISTOR

Advanced Electronics, Inc.
Aerodex, Inc.
Colonial Rubber Co.
J. W. Johnson & Co., Inc.
Omega Labs., Inc.
Sperry Microwave Electronics Co., Div.-Sperry Rand Corp.
Telerad Mfg. Corp.
Wilks Precision Instrument Co., Inc.
Yellow Springs Instrument Co., The

MUFFLER ASSEMBLIES, HEATER
See HEATER MUFFLER ASSEMBLIES

MUFFLERS, JET ENGINE INTAKE & EXHAUST

Allied Witan Co., Inc.
Curtiss-Wright Corp., Research Div.
Curtiss-Wright Corp., Wright Aeronautical Div.
Diversey Engrg. Co.
Dresser Mfg. Div., Dresser Industries, Inc.
Emhart Mfg. Co., Maxim Div.
Finn Aeronautical Div., T. R. Finn & Co., Inc.
Industrial Acoustics Co., Inc.
Kaiser Aircraft & Electronics, Div.-Kaiser Industries Corp.
Mercury Tool & Mfg. Corp.
Portland Copper & Tank Works Inc.
Edw. Renneburg & Sons Co.
***RHEEM MFG. CO., DEFENSE & TECHNICAL PRODUCTS DIV.**
Rohr Aircraft Corp.
Smith-Morris Corp.
Stainless Steel Products, Inc.
Vard Inc.

MUFFS

Allied Witan Co. Inc.
Colonial Aircraft Corp.
Curtiss-Wright Corp.-Wright Aeronautical Div.
Piasecki Aircraft Corp.
Ryan Aeronautical Co.
Thiokol Chemical Corp.

MULTIPLEX SYSTEMS

***ARNOUX CORP.**
Barker Sales Co.
Bell & Gossett Co.
Budelman Electronics Corp.
Centronix Inc.
Collins Radio Co.
Cubic Corp.
Data-Control Systems, Inc.
Electro Tec Corp.
Electronic Communications, Inc.
General Devices, Inc.
General Electric Co., Computer Dept.
Hallicrafters
ITT Federal Div., International Telephone & Telegraph Corp.

Instrument Development Labs., Inc.
Moore Associates, Inc.
Motorola Inc., Military Electronics Div.
***PACKARD-BELL ELECTRONICS CORP.**
Philco Corp., Government & Industrial Div.
Radiation, Inc.
Railway Communications Inc.
Raytheon Mfg. Co.
Raytheon Mfg. Co., Government Equipment Div.
Rixon Electronics Inc.
Stromberg-Carlson Div.-General Dynamics Corp.
Telechrome Mfg. Corp.
Tele-Dynamics Inc.
Transco Products, Inc.

MULTIPLIERS
a. Crystal
b. Diode
c. Electronic
d. Frequency
e. Magnetic
f. Meter
g. Servo

Aircom Inc., a.
Amelco, Inc., d.
Amerac Inc., d.
American Electronics, Inc., d.
American Research & Mfg. Corp., c, d, e.
Atlas Precision Products Co., g.
Avo Ltd., f.
Beckman Instruments, Inc., Berkeley Div., c, g.
Bergen Labs., Inc.
Centronix Inc., c.
Chadwick-Helmuth Co., c.
Clary Dynamics, c.
Coils-Electronics, g.
Dalmotor Div., Yuba Consolidated Industries, Inc., g.
Daven Co., The, f.
Daystrom Pacific Div.-Daystrom, Inc., g.
Demornay-Bonardi, d.
Device Development Corp., c, e.
Di-An Controls, Inc., c.
Donner Scientific Co., c, g.
Douglas Microwave Co., Inc., a, d.
Thomas A. Edison Ind. Instrument Div.-McGraw-Edison Co., g.
Electro Precision Corp., g.
Electronic Applications, Inc., d.
Electronic-Tech Equipment Co., f.
Feedback Controls, Inc., g.
General Electric Co., Computer Dept.
General Magnetics, Inc., e.
Good Electronic Corp., c, d.
Gyrex Corp., The, d.
Hamilton Standard, Div.-United Aircraft Corp.
Hoover Electric Co., g.
Walter J. Hyatt Co., The, g.
I-L-S Instrument Div., The Meriam Instrument Co., d.
Industrial Test Equipment Co., c.
Instruments for Industry, Inc., c, d.
***KEARFOTT CO., INC.**, g.
L E L, Inc., c, d.
Land-Air Inc., g.
Magnetic Instrument Co., Inc., g.
Manson Labs., Inc., d.
Microwave Associates, Inc., a, b, c.
Minneapolis-Honeywell Regulator Co., Industrial Product Group, g.
Monogram Precision Industries, d.
Moran Instrument Corp., g.
Motorola Inc., Military Electronics Div., a thru d.
Newton Co., The, c.
Ernest Norrman Laboratories, c.
George A. Philbrick Researches, Inc., c.
Philco Corp., Government & Industrial Div.
Physics Research Laboratories, Inc., f.
Precision Resistor Co. Inc., f.
Radar Design Corp., d.
Reeves Instrument Corp., b, c, g.
Resdel Engrg. Corp., a, d.
Shallcross Mfg. Co., f.
Simpson Electric Co., f.
Specialty Engrg. & Electronics Co., b, c.
Sperry Electronic Tube Div., Sperry Rand Corp., d.
Tapco Group, Thompson-Ramo-Woodridge Inc.
Technical Apparatus Builders, d, e, f.
Telechrome Mfg. Corp., c, d.
Telerad Mfg. Corp., d.
Weston Hydraulics Ltd.-Sub., Borg-Warner Corp., g.
Weston Instruments, Div.-Daystrom, Inc., f.

MULTIVIBRATORS, VIBRATORS
See VIBRATORS, MULTIVIBRATORS,

NAILS, SPECIAL

Aluminum Co. of America
Anti-Corrosive Metal Products Co., Inc.
Capewell Mfg. Co.
Chase Brass & Copper Co., Inc.
Corbin Products Div.
John Hassall, Inc.
Illumitronic Engrg. Co.
Republic Steel Corp.
Star Stainless Screw Co.

NAMEPLATES

Acromark Co., The
Adept Industries Inc.
Aerojet-General Corp.
All Specs Corp.
Allied Plastics Supply Corp.
Alpitec, Inc.
American Aeroparts
Bendix Aviation Corp., York Div.
W. H. Brady Co.
Burton-Rodgers, Inc.
Cleveland Metal Specialties Co., Electronics Div.
Conn-Craft Co.
Croname Inc.
Crystal-X Corp.
Henry G. Dietz Co., Inc.
Duralith Corp.
Electric Auto-Lite Co., The
Electrical Insulation Co., Inc.
Eljay Corp.
Emeloid Co., Inc., The
Emerson Plastics Corp.
Emmco Plastic Fabricators – Div.-E. M. McCarthy Machine Co.
Erie Resistor Corp.
Fisher & Crome
Industrial Engravers, Inc.
Jodee Plastics Co.
Keil Engrg. Products
Kerrco Products
Thomas J. Long, Inc.
Maryland Etching Co. Inc.
Jas. H. Matthews & Co.
Metalphoto Corp.
Mica Insulator Div.-Minnesota Mining & Mfg. Co.
Mico Instrument Co.
Miller Dial & Nameplate Co.
Minnesota Mining & Mfg. Co.
New England Etching & Plating Co., Inc.
Panel Engrg. Corp.
Park Nameplate Co., Inc.
Pee Cee Tape & Label Co.
Penn Fibre & Specialty Co., Inc.
Q-Circuits, Div.-Etching Co. of Calif.
Roovers-Latsch Corp.
Milton Ross Metals Co., The
D. A. Schultz Co.
Scioto Sign Co.
Specialty Engrg. & Electronics Co.
Topflight Corp.
United States Radium Corp.
Virginia Plak Co.
Waldom Electronics Inc.
Westlake Plastics Co.
Wilks Precision Instrument Co., Inc.

NAVIGATION CALLING SYSTEMS, SELECTIVE
See CALLING SYSTEMS, SELECTIVE, NAVIGATION

NAVIGATION DOMES

American Aeroparts
American Optical Co., Instrument Div.
Corning Glass Works
Fletcher Mfg. Co., Inc., The
Hughes Tool Co., Aircraft Div.
Hull Corp.
Kaiser Aircraft & Electronics, Div.-Kaiser Industries Corp.
Monogram Precision Industries
National Pneumatic Co., Inc., Holtzer-Cabot Divs.
Plastic Age Sales, Inc.
Reinhold Engrg. & Plastics Co.
Silicone Insulation, Inc.
Swedlow Inc.

NAVIGATION EQUIPMENT, GROUND

ACF Industries Inc.
American Missile Products Co., Inc.
Arma Div., American Bosch Arma Corp.
Atlas Precision Products, Co.
Bell Aircraft Corp., Niagara Frontier Div.
Bendix Aviation Corp., York Div.
Communications Research Co.
Craig Systems, Inc.
Data-Control Systems, Inc.
Dayton Aviation Radio & Equipment Corp.
Fairchild Astrionics Div., Fairchild Engine & Airplane Corp.
Gilfillan Bros. Inc.
Hazeltine Electronics Div.-Hazeltine Corp.
***KEARFOTT CO., INC.**
Litton Industries, Maryland Div.
W. L. Maxson Corp., The
Motorola Inc., Military Electronics Div.
Philco Corp., Government & Industrial Div.
Raytheon Mfg. Co., Government Equipment Div.
Seiscor Mfg. Co.
Specialty Engrg. & Electronics Co.
Stromberg-Carlson Div.-General Dynamics Corp.
Thiokol Chemical Corp.
U. S. Science Corp., Div.-Topp Industries, Inc.
Winder Aircraft Corp. of Florida

NAVIGATION SYSTEMS
***AC ELECTRONICS DIV., GENERAL MOTORS INC.**
ACF Industries Inc.
American Bosch Arma Corp.
Atlas Precision Products Co.
Baird-Atomic, Inc.
Bell Aircraft Corp., Niagara Frontier Div.
Bendix Aviation Corp., Eclipse-Pioneer Div.
Bendix Radio Div., Bendix Aviation Corp.
Bendix-Pacific Div., Bendix Aviation Corp.
Centronix Inc.
Collins Radio Co.
Communications Research Co.
Dayton Aviation Radio & Equipment Corp.
Electronic Communications, Inc.
Emerson Electric Mfg. Co., The, Electronics & Avionics Div.
Emerson Radio & Phonograph Corp.
Fairchild Astrionics Div., Fairchild Engine & Airplane Corp.
Feedback Controls, Inc.
Ford Instrument Co., Div.-Sperry Rand Corp.
General Electric Co., Missile & Space Vehicle Dept.
General Precision Lab. Inc.
Gilfillan Bros. Inc.
Hazeltine Electronics Div.-Hazeltine Corp.
Hoffman Labs. Div., Hoffman Electronics Corp.
Hughes Aircraft Co.
Hydra-Power Corp.
International Business Machines Corp.-Military Products Div.
***KEARFOTT CO., INC.**
Land-Air Inc.
Lane Electronics Mfg. Corp.
Lear, Inc.
Lear, Inc., Grand Rapids Div.
Librascope Inc.
Litton Industries, Inc.
Litton Industries, Maryland Div.
W. L. Maxson Corp., The
Minneapolis-Honeywell Regulator Co.-Aeronautical Div.
Motorola Inc., Military Electronics Div.
Northrop Corp.
Northrop Corp., The, Nortronics Div.
Philco Corp., Government & Industrial Div.
Power-Tronic Systems Inc.
Radiation, Inc.
Ramo-Wooldridge Div., Thompson Ramo Wooldridge of Calif.
Raytheon Mfg. Co., Government Equipment Div.
Ryan Aeronautical Co.
Seiscor Mfg. Co.
Servo Corp. of America
Sperry Gyroscope Co., Marine Div., Div.-Sperry Rand Corp.
Sperry Piedmont Co.-Div.-Sperry Rand Corp.
Stromberg-Carlson Div.-General Dynamics Corp.
Summers Gyroscope Co.
Thiokol Chemical Corp.
U. S. Industries, Inc.
Winder Aircraft Corp. of Florida

NEEDLES, DIAMOND

United Mineral & Chemical Corp.

NEEDLES, METAL

Audio Devices, Inc.
Capital City Mfg. Co.
Electronic Parts Mfg. Co., Inc.
Monogram Precision Industries
Sphinx-American Co.
Torrington Co., The

NEEDLES, STEEL

Audio Devices, Inc.
Duotone Co., Inc.
Kaydon Engrg. Corp., The
Sphinx-American Co.
Torrington Co., The

NETWORKS
a. Crossover
b. Directional Antenna Phasing
c. Matching
d. Potted
e. Pulse Forming

AMP Inc., e.
Airtron Inc., Div.-Litton Industries, b.
Airtronics International Corp., e.
Alford Mfg. Co., c.
Atlas Precision Products, Co., e.
Audio Development Co., a, c, d.
Axel Electronics, e.
Barker Sales Co., a.
Blonder-Tongue Labs., Inc., a, e.
CELCO (Constantine Engrg. Labs. Co.), a thru e.
Cornell-Dubilier Electric Corp., e.
Corson Electric Mfg. Corp., e.
Dale Products, Inc., d.
Daven Co., The, c, d.
Double E Products Co., a thru e.
Dresser Industries, Inc., d, e.
Electronic Applications, Inc., e.
Entron, Inc., c.
FXR, Inc., e.
Filtron Co., Inc., d, e.
Forbes & Wagner, Inc., e.
General Electric Co., Apparatus Sales Div., e.
Gudeman Co. of California, Inc., The, Monrovia Div., e.
Walter J. Hyatt Co., The, a thru e.
Instruments for Industry, Inc., a, c.
JFD Electronics Corp., e.
Jensen Mfg. Co., a, c.
E. F. Johnson Co., c.
***KEARFOTT CO., INC.**, a, b, c.
Mepco, Inc., c, d.
Minneapolis-Honeywell Regulator Co.-Davies Labs. Div., e.
Motorola Inc., Military Electronics Div., d.
NYT Electronics, Inc., a, i, e.

National Pneumatic Co., Holtzer-Cabot Divs., b, c, d.
Networks Electronic Corp., c, d.
Ralph M. Parsons Co., The, Electronics Div., a.
Perry Plastics, Inc., a.
Power-Tronic Systems Inc., a, c, d.
Milton Ross Metals Co., The, d.
Shallcross Mfg. Co., d.
Stromberg-Carlson Div.-General Dynamics Corp., a.
Technical Apparatus Builders, a.
Telechrome Mfg. Corp., d, a.
Telectro Industries Corp., a, b, c.
Tobe Deutschmann Corp., a.
Transco Products, Inc., c.
Trionics Corp., d.
University Loudspeakers, Inc., a.
Vanguard Electronics Co., d, a.
Webcor, Inc., Government Div., d, a.

NITROGEN GASES
See GASES, NITROGEN

NITROGEN, LIQUID
See LIQUID NITROGEN

NOISE SUPPRESSORS
See SUPPRESSORS, NOISE

NON-FLEXIBLE DUCTS
See DUCTS, NON-FLEXIBLE

NON-METALLIC BUSHINGS
See BUSHINGS, NON-METALLIC

NON-METALLIC EXTRUSIONS
See EXTRUSIONS, NON-METALLIC

NON-METALLIC FITTINGS
See FITTINGS, NON-METALLIC

NON-METALLIC GASKETS
See GASKETS, NON-METALLIC

NON-METALLIC MOUNTINGS
See MOUNTINGS, NON-METALLIC

NON-METALLIC SLEEVES
See SLEEVES, NON-METALLIC

NOZZLE ASSEMBLIES

ACF Industries Inc.
Aerolab Development Co.
American Bosch Arma Corp.
American Car & Foundry, Div.-ACF Industries, Inc.
American Machine & Foundry Co., Government Products Group
Astrodyne, Inc.
Atlantic Instrument Corp., Sub.-American Electronics, Inc.
Auto Specialties Mfg. Co., Inc.
B. H. Aircraft Co., Inc.
***BEATON & CORBIN MFG. CO., THE**
***BENDIX PRODUCTS DIV., BENDIX AVIATION CORP.**
Buckeye Iron & Brass Works
California Aircraft Products
***CAMERON IRON WORKS, INC.**
Carmac Aviation
Christie Machine Works
Cleveland Pneumatic Industries, Inc.
Cooper Development Corp., Sub.-Marquardt Aircraft Co.
Crystal-X Corp.
Curtiss-Wright Corp.-Wright Aeronautical Div.
Diversey Engrg. Co.
Dresser Mfg. Div., Dresser Industries, Inc.
Electro-Mechanical Products Co.
Engineered Products Co., The
Federal Machine Co. Inc.
Fletcher Mfg. Co., Inc., The
Giannini Plasmadyne Corp.
Haveg Industries, Inc.
Herlo Engrg. Corp.
Houston Fearless Corp.
Hufford Corp., The
Hupp Aviation Co.
Hydrodyne Corp., Skinner Seal Div.
Ingersoll Kalamazoo Div., Borg-Warner Corp.
Intercontinental Mfg. Co., Inc.
Kaiser Aircraft & Electronics, Div.-Kaiser Industries Corp.
M. W. Kellogg Co., The
Kolcast Industries-Div. Thompson-Ramo-Wooldridge Inc.
Marman Div., Aeroquip Corp.
Marquardt Aircraft Co.
Mercury Tool & Mfg. Corp.
National Beryllia Corp.
Newbrook Machine Corp.
Norris-Thermador Corp.
Norton Co., New Products Dept.
Parker-Hartford Corp., The
Parts Engrg. Co., Inc.
Plastic Age Sales, Inc.
Portland Copper & Tank Works Inc.
Precision Sheet Metal, Inc.
Red Lion Cabinet Co., Redco Tool Div.
***RHEEM MFG. CO., DEFENSE & TECHNICAL PRODUCTS DIV.**
Rohr Aircraft Corp.
Royal Industries, Inc.
Ryan Aeronautical Co.
Smith-Morris Corp.
Solar Aircraft Co.
Stainless Steel Products, Inc.
Stalker Corp., The
Tapco Group, Thompson-Ramo-Wooldridge Inc.
H. I. Thompson Fiber Glass Co.
Turbo Products, Inc.
Twigg Industries
Vard Inc.
Waste King Corp., Technical Products Div.
Western Gear Corp.
Young Development Div., Hercules Powder Co.

NOZZLE DIAPHRAGMS

ACF Industries Inc.
Aerolab Development Co.
American Machine & Foundry Co., Government Products Group
Astrodyne, Inc.
Cleveland Pneumatic Industries, Inc.
Cooper Development Corp., Sub.-Marquardt Aircraft Co.
Curtiss-Wright Corp.-Wright Aeronautical Div.
Diversey Engrg. Co.
Dresser Mfg. Div., Dresser Industries, Inc.
Fletcher Mfg. Co., Inc., The
Haveg Industries, Inc.
Herlo Engrg. Corp.
Houston Fearless Corp.
Hupp Aviation Co.
Joclin Mfg. Co.
Kaiser Aircraft & Electronics, Div.-Kaiser Industries Corp.
Kolcast Industries-Div. Thompson Ramo Wooldridge Inc.
National Beryllia Corp.
Parts Engrg. Co., Inc.
Portland Copper & Tank Works Inc.
***RHEEM MFG. CO., DEFENSE & TECHNICAL PRODUCTS DIV.**
Ryan Aeronautical Co.
Solar Aircraft Co.
Stalker Corp., The
Tapco Group, Thompson-Ramo-Wooldridge Inc.
H. I. Thompson Fiber Glass Co.
Turbo Products, Inc.
Twigg Industries
United States Rubber Co.
Vard Inc.

NOZZLES

a. Exhaust
b. Exhaust, Metallic
c. Fuel Injection
d. Rocket, Movable

ACF Industries Inc., c.
Aerojet-General Corp., a.
Aerolab Development Co., a, b.
Aeroscience, Inc.
Aircraft Mechanics, Inc., a, b.
Aircraft Precision Products, Inc., a, b.
Alco Products, Inc., b.
American Bosch Arma Corp., c.
American Car & Foundry, Div.-ACF Industries, Inc., a.
American Machine & Foundry Co., Government Products Group, a, b.
Anchor Metal Spinning Co., The, a, b.
Arde-Portland, Inc., a, b.
Associated Engineers, Inc., c.
Astrodyne, Inc., a, b.
Atlantic Instrument Corp., Sub.-American Electronics, Inc., c.
Auto Specialties Mfg. Co., Inc., a.
B. H. Aircraft Co., Inc., a, b, c.
Baldwin Mfg. Co., Inc., The, c.
***BENDIX PRODUCTS DIV., BENDIX AVIATION CORP., d.**
Benson Mfg., Co., The, a.
California Aircraft Products, a, c.
***CAMERON IRON WORKS, INC., a, b.**
Carbone Corp., The, a.
Carborundum Co., Refractories Div., a.
Carmac Aviation
Celco (Constantine Engrg. Labs. Co.), a.
Christie Machine Works, a.
Cleveland Pneumatic Industries, Inc., a, b, c.
Com-Air Products, Div.-A S R Products Corp., c.
Cooper Development Corp., Sub.-Marquardt Aircraft Co., a, b, c.
Curtiss-Wright Corp.-South Bend Div., c.
Curtiss-Wright Corp.-Wright Aeronautical Div., a, b, c.
Diversey Engrg. Co., a, b.
Dresser Industries, Inc., a, b.
Dresser Mfg. Div., Dresser Industries, Inc., a, b.
Eddington Metal Specialty Co., c.
Electro-Mechanical Products Co., c.
Emerson Plastics Corp., a.
Engineered Products Co., The, c.
Federal Machine Co. Inc., a.
Finn Aeronautical Div., T. R. Finn & Co., Inc., a, b.
Fletcher Mfg. Co., Inc., The, a, b, c.
***FLEXONICS CORP., AERONAUTICAL DIV., a.**
Gladding, McBean & Co., a.
Haveg Industries, Inc., a.
Herlo Engrg. Corp.
Hicks Corp., The, b.
Highland Rim Machine Works Inc., c.
Houston Fearless Corp., c.
Hufford Corp., The, a.
Hupp Aviation Co., a, c.
Hydrodyne Corp., Skinner Seal Div., a, b.
Ingersoll Kalamazoo Div., Borg-Warner Corp., a, b.
Intercontinental Mfg. Co., Inc., a.
Joclin Mfg. Co., a.
Kaiser Aircraft & Electronics, Div.-Kaiser Industries Corp., a, b.
Kaiser Metal Products, Inc.-Fleetwings Div., a.
Kanorr Corp., a, b.
M. W. Kellogg Co., The, a, b, c.
Kelsey-Hayes Co., a, b.
Kolcast Industries-Div. Thompson Ramo Wooldridge Inc., a, b, c.
Korda Industries, c.
Ladish Co., a, b.
Lamtex Industries, Inc., a.
***LAVELLE AIRCRAFT CORP., b.**
Marquardt Aircraft Co., a, b.
Mercury Tool & Mfg. Corp., a.
Metal Fabricators Corp., a, c.
Minnesota Mining & Mfg. Co., a.
Morganite, Inc., a.
National Airoil Burner Co., c.
National Beryllia Corp., a, c.
Newbrook Machine Corp., a, b, c.
Norris-Thermador Corp., a, b.
Norton Co., a.
Norton Co., New Products Dept., a, b.
Oerlikon Tool & Arms Corp. of America, a.
Ohio Carbon Co., The, a.
Parker Aircraft Co., c.
Parker-Hartford Corp., The, a, b, c.
Parts Engrg. Co., Inc., a, b, c.
Plastic Age Sales, Inc., a.
Portland Copper & Tank Works Inc.
Pressed Steel Tank Co., a, b.
Reaction Motors Div., Thiokol Chem. Corp., a, b, c.
Red Lion Cabinet Co., Redco Tool Div.
Reinhold Engrg. & Plastics Co., a.
***RHEEM MFG. CO., DEFENSE & TECHNICAL PRODUCTS DIV., a, b.**
C. F. Roark Welding & Engrg. Co., Inc., a, b.
Rocketdyne Div.-North American Aviation, Inc., c.
Rohr Aircraft Corp., a, b.
Ronson Hydraulic Units Corp., c.
Royal Industries, Inc., a.
Ryan Aeronautical Co., a, b.
Silicone Insulation, Inc., a.
Smith-Morris Corp., a, b, c.
Solar Aircraft Co., a.
Special Projects Lab., Food Machinery & Chemical Corp., a, c.
Spraying Systems Co.
Squiers Gage Co., a, b, c.
Stainless Inc., a, b.
Stainless Steel Products, Inc., a, b.
Stalker Corp., The, a.
Swedlow Inc., a.
Tapco Group, Thompson-Ramo-Wooldridge Inc., a, b, c.
Teiner Engrg. Corp., a.
Thermal Refractories Corp., a.
H. I. Thompson Fiber Glass Co.
C. W. Torngren Co., Inc., a.
Tube-Turns Div., Chemetron Corp., b.
Turbo Products, Inc., a, b.
Twigg Industries, a, b, c.
United Aircraft Products, Inc., c.
Universal Moulded Products Corp., a.
Vard Inc., a, b, c.
Veet Industries, c.
Waste King Corp., Technical Products Div., a, b.
Westinghouse Electric Corp., Metals Plant, b.
Wheland Co., The, a.
Young Development Div., Hercules Powder Co., a.

NUCLEAR

a. Analyzers, Coincidence
b. Analyzers, Neutron Absorption
c. Analyzers, Spectrum
d. Assemblies, Shield
e. Badges, Radiation
f. Controls, Reactor
g. Counters
h. Crystals
i. Detectors
j. Indicators, Radiation
k. Manipulators
l. Meters, Counting Rate
m. Meters, Dosimeter
n. Meters, Nuclear Radiation
o. Processors, Cataclystic Flow Rate
p. Shielding, Radiation
q. Tubes, Scintillation
r. Tubes, Geiger Counter

ACF Industries Inc., d, p.
Adept Industries Inc., a.
Aerojet-General Corp., f.
Aerotec Corp., The, f.
Alpitec, Inc., p.
American Electronics, Inc., American Nuclear Div., c, d, e, g thru j, l, n, p, q, r.
American Lava Corp., b.
American Machine & Foundry Co., Government Products Group, f, k.
American Smelting & Refining Co., p.
Anton Electronic Labs., Inc., b, g, i, j, l, m, n, r.

Assembly Products, Inc., l, m.
Baird-Atomic, Inc., a, c, d, f thru j, l, m, n, p, q.
Bar-Ray Products, Inc., d, p.
***BAUSCH & LOMB OPTICAL CO.**, i, j, m, n.
Beaver Precision Products Inc., f.
Bell & Howell Co., m.
***BENDIX PRODUCTS DIV., BENDIX AVIATION CORP.**, f.
Beva Lab., Inc., a, b, c.
Bios Labs., h.
E. W. Bliss Co., k.
Brooks & Perkins, Inc., d, p.
Central Electronic Mfrs., Div.-Nuclear Corp. of America, q.
Corning Glass Works, d, e, i, p.
Curtiss-Wright Corp., Electronics Div., f, i, j.
Curtiss-Wright Corp., Research Div., f, g.
Diversey Engrg. Co., d, f, k.
Division Lead Co., p.
Eastman Kodak Co., e.
Edgerton, Germeshausen & Grier, Inc., f, i, j, m, n.
Eldorado Electronics, a, c, g, n.
Emerson & Cuming, Inc., p.
Era Engrg. Inc., i, j, l, n.
FXR, Inc., c, m.
Fisher Research Lab., Inc., i, j.
Flow Corp., h.
Ford Instrument Co., Div.-Sperry Rand Corp., f.
Genalex Div.-British Industries Corp., q, r.
General Electric Co., X-Ray Dept., c.
Gladding, McBean & Co., p.
Greer Hydraulics, Inc., k.
Hallett Mfg., Co., p.
Horkey-Moore Associates, k.
I-L-S Instrument Div., The Meriam Instrument Co., l.
ITT Labs.- Ft. Wayne, i.
Johns-Manville Sales Corp., p.
Jordan Electronics, Div.-Victoreen Instrument Co., i, j, n.
Keithley Instruments, Inc., f.
Land-Air Inc., i, j.
La Roe Instruments, Inc., g.
Leeds & Northrup Co., f.
Levinthal Electronic Products, Inc., h.
Lithium Corp. of America, Inc., p.
Marquardt Aircraft Co., f.
Menlo Research Lab., g, i, j, n.
Minneapolis-Honeywell Regulator Co., Davies Labs. - Div., f, l.
Minneapolis-Honeywell Regulator Co., Industrial Div., f.
Minneapolis-Honeywell Regulator Co., Industrial Product Group, f, n.
National Beryllia Corp., d.
National Lead Co., d.
National Spectrographic Labs., Inc., c.
Norton Co., p.
Norton Co., New Products Dept., p.
Nuclear Corp. of America, c, d, g, i, j, l, m, n.
Nuclear Products-Erco Div.-ACF Industries, Inc., f.
Nuclear-Chicago Corp., d, e, g thru j, l, m, n, p, q, r.
Orbit Instrument Corp., f.
Pacific Coast Engrg. Co., d, p.
Patterson, Moos Div. - Universal Winding Co., Inc., g, i, j, m.
Piasecki Aircraft Corp., i, l, m, n.
Pilot Chemicals, Inc., h.
Portland Copper & Tank Works Inc., d.
Precision Methods & Machines Div.- Textron Inc., f.
R & R Engrg. Co., d, p.
Radiation Instrument Development Lab., Inc., a, c, f thru j, l, m, p, q, r.
Raytheon Mfg. Co., c, r.
Ryan Aeronautical Co., d.
St. John X-Ray Lab., e.
St. Regis Paper Co., Panelyte Div., p.
Smith-Morris Corp., a.
Specialty Engrg. & Electronics Co., i, j.
Spectrum Instruments, Inc., c.
Stanley Aviation Corp., f, g, i, j.
Stover Co., Inc., The, p.
Stems-Roger Mfg. Co.
Strand Engrg. Co., i.
Stromberg-Carlson Div.-General Dynamics Corp., f.
Systems Inc., n.
Systron Corp., g.
Tapco Group, Thompson-Ramo-Wooldridge Inc., d, f, k.
Teleflex Inc., f.
Twenty-First Century Electronics, Inc., i, j.
U. S. Industries, Inc., k.
Vard Inc., f.
Westronics Inc., f, j.
N. Wood Counter Lab., g, i, q, r.
Zippertubing Co., The, d, p.

NUCLEAR PRODUCTS

a. Analyzers, Coincidence
b. Analyzers, Neutron Absorption
c. Analyzers, Spectrum
d. Assemblies, Shield
e. Badges, Radiation
f. Chambers, Alpha
g. Counters, Alpha
h. Counters, Radiation
i. Counters, Scintillation
j. Crystal, Scintillation
k. Detectors, Scintillation
l. Equipment, Nuclear Radiation
m. Indicators, Radiation
n. Spectrometers
o. Tubes, Gamma Ray
p. Tubes, Geiger Counter
q. Tubes, Scintillation

ACF Industries Inc.
Adept Industries Inc., e.
Aerotec Corp., The, l.
Alpitec, Inc., d.
American Electronics, Inc., e, h, i.
American Electronics, Inc., American Nuclear Div., c, d, e, h thru q.
American Lava Corp., h.
Anton Electronic Labs., Inc., f, g, h, l, m, o, p.
Applied Radiation Corp., l.
Baird-Atomic, Inc., a thru d, f thru k, m thru q.
***BAUSCH & LOMB OPTICAL CO.**, e, m, n.
Beva Lab., Inc., a, b, c, l.
James G. Biddle Co., n.
Bios Labs., Inc., j.
Brooks & Perkins, Inc., d.
Cambridge Filter Corp., l.
Central Electronic Mfrs., Div.-Nuclear Corp. of America, q.
Consolidated Electrodynamics Corp., c, n.
Corning Glass Works, e.
Curtiss-Wright Corp., Electronics Div., m.
Eastman Kodak Co., e.
Edgerton, Germeshausen & Grier, Inc., l, m.
Eldorado Electronics, a, c, h, l, m.
Engrg. Associates, g.
FXR, Inc., c.
Fisher Research Lab., Inc., h, j.
Ford Instrument Co., Div.-Sperry Rand Corp.
Genalex Div.-British Industries Corp., o, p, q.
General Electric Co., X-Ray Dept., c, n, o.
Glass Engrg. Div. Braun-Knecht-Heimann-Co., p.
Hallett Mfg., Co., c.
Harvey-Wells Electronics Inc., n.
High Voltage Engrg. Corp., l.
Horkey-Moore Associates, l.
Instruments Div.-Philips Electronics, Inc., i, k, p.
International Electronic Research Corp., h, l, m.
Kollmorgen Optical Corp., l.
Land-Air Inc., h, l, m.
La Roe Instruments, Inc., h.
Levinthal Electronic Products, Inc., j.
Magnetic Instrument Co. Inc., i, k.
Menlo Research Lab., h, i, k.
Minneapolis-Honeywell Regulator Co., Industrial Product Group, e, l.
National Lead Co., d.
National Spectrographic Labs., Inc., c, n.
Norton Co., New Products Dept., d.
Nuclear Corp. of America, c, f thru n.
Nuclear-Chicago Corp., c thru q.
Pacific Coast Engrg. Co., d.
Patterson, Moss Div. - Universal Winding Co., Inc., l.
Piasecki Aircraft Corp., h, i.
Picker X-Ray Corp., e.
Pilot Chemicals, Inc., i, j, k.
Portland Copper & Tank Works Inc., f.
R & R Engrg. Co., d.
Radiation Instrument Development Lab., Inc., a, c, g thru q.
Raytheon Mfg. Co., c, p.
Riggs Nucleonics Corp., h, l, m.
Ryan Aeronautical Co., d.
St. John X-Ray Lab., e.
Scientific Engrg. Labs., Inc., l.
Smith-Morris Corp., c, d.
Specialty Engrg. & Electronics Co., l, m.
Spectrum Instruments, Inc., c.
Stanley Aviation Corp., h, i, k, m.
Tapco Group, Thompson-Ramo-Wooldridge Inc., d, l.
Twenty-First Century Electronics, Inc., l.
U. S. Industries, Inc.
Varian Associates, n.
N. Wood Counter Lab., g, h, i, k, o, p.

NUCLEAR RADIATION EQUIPMENT
See RADIATION EQUIPMENT, NUCLEAR

NUCLEAR SEALERS
See SEALERS, NUCLEAR

NUTS, SELF-LOCKING

Abbott Screw & Mfg. Co.
Aero Bolt & Screw Co., Inc.
All Specs Corp.
Allmetal Screw Products Co., Inc
Anti-Corrosive Metal Products Co., Inc.
Atlas Screw & Specialty Co.
Barrett-Christie Co.
Best Aircraft Corp.
Boots Aircraft Nut Corp.
Century Fasteners Corp.
Columbia Nut & Bolt Co., Inc.
Cooper Industries, Inc.
Corbin Products Div.
Curtiss-Wright Corp., Research Div.
R. C. Dudek & Co.
Eaton Mfg. Co., Reliance Div.
Elastic Stop Nut Corp. of America
Grip Nut Co.
Hi-Shear Rivet Tool Co.
Jacobson Nut Mfg. Corp.
Kaynar Mfg. Co., Inc.
Klincher Locknut Corp.
Lamson & Sessions Co., The
Lucas Aircraft Supply Co.
J. I. Morris Co.
National Screw & Mfg. Co., The
Republic Steel Corp.
Servwell Products Co.
Shur-Lok Corp.
Standard Locknut & Lockwasher Inc.
Standard Pressed Steel Co.
Star-Stainless Screw Co.
Tinnerman Products, Inc.
***TOWNSEND CO., CHERRY RIVET DIV.**
United Supply Co.
Waltham Precision Instrument Co.

OIL COOLERS
See COOLERS, OIL

OIL SEPARATORS
See SEPARATORS, OIL

OIL-COOLING ENGINES
See ENGINES, OIL-COOLING

OMNIRANGE

Allied International Co.
Atlas Precision Products, Co.
Bendix Radio Div., Bendix Aviation Corp.
Collins Radio Co.
Dayton Aviation Radio & Equipment Corp.
Hazeltine Electronics Div.-Hazeltine Corp.
ITT Labs.
Jansky & Bailey, Inc.
Litton Industries, Inc.
Litton Industries, Maryland Div.
Motorola Inc., Military Electronics Div.
Philco Corp., Government & Industrial Div.
Servo Corp. of America
Systems Inc.
Telectro Industries Corp.
Theta Instrument Corp.
U. S. Science Corp., Div.-Topp Industries, Inc.

OMNIRANGE RECEIVERS

Allied International Co.
Bendix Radio Div., Bendix Aviation Corp.
Collins Radio Co.
Dayton Aviation Radio & Equipment Corp.
Electronic Communications, Inc.
Hoffman Labs. Div., Hoffman Electronics Corp.
ITT Labs.
Lear, Inc.
Lear, Inc., Grand Rapids Div.
Litton Industries, Maryland Div.
Livingston Electronic Corp.
Motorola Inc., Military Electronics Div.
Philco Corp., Government & Industrial Div.
Telectro Industries Corp.
U. S. Science Corp., Div.-Topp Industries, Inc.

OPERATOR, VALVE
See VALVE OPERATOR

OPTICAL EQUIPMENT & SPECIALTIES

American Cystoscope Makers, Inc.
American Machine & Foundry Co., Government Products Group
American Optical Co., Instrument Div.
Andersen Labs.
Atlantic Research Corp.
Baird-Atomic, Inc.
Bell & Howell Co.
Boonton Radio Corp.
Buhl Optical Co.
Burke & James Inc.
Cameraflex Corp.
Chrysler Corp., Defense Operations Div.
Consolidated Electrodynamics Corp.
Covel Mfg. Co.
Davidson Mfg. Co., Inc.
Eastman Kodak Co.
Edmund Scientific Corp.
***ELECTROSNAP CORP.**
Elgeet Optical Co., Inc.
***ENGIS EQUIPMENT CO.**
J. W. Fecker, Inc.
Goertner Scientific Corp., The
General Scientific Equipment Co.
Gordon Enterprises
Graflex Inc.
Haller, Raymond & Brown Inc. Div., Singer Mfg. Co.
Hayward Scientific Glass Corp.
ITT Labs.
Kern Instruments, Inc.
Kinney Mfg. Div., The New York Air Brake Co.
Kollmorgen Optical Corp.
Land-Air Inc.
Landsverk Electrometer Co., The
Lenox Instrument Co.
Librascope Inc.
Mast Development Co., Inc.
National Spectrographic Labs., Inc.
Northrop Corp., The, Nortronics Div.
Optical Coating Lab., Inc.
Pacific Universal Products Corp.
Perkin-Elmer Corp.
Philco Corp., Government & Industrial Div.
Process & Instruments
Republic Lens Co. Inc.
Seiscor Mfg. Co.
Sterling Glass Corp.
Telectro Industries Corp.
Tinsley Labs., Inc.
Traid Corp.
Valpey Crystal Corp.
Van Keuren Co.
Zenith Optical Laboratory
Zoomar Inc.

OPTICAL MICROSCOPES
See MICROSCOPES, OPTICAL

OPTICAL PYROMETERS
See PYROMETERS, OPTICAL

OSCILLATORS
- a. Audio
- b. Audio Fork Controlled
- c. Audio Frequency
- d. Cavity
- e. Code
- f. Crystal
- g. Grid Dip
- h. Grid Dip-High Frequency & VHF
- i. Microwave
- j. Oven Crystal Control
- k. Pulse
- l. Pushbutton
- m. Radio Frequency
- n. RF
- o. Strain-Gage FM, Voltage-Controlled
- p. Sweep
- q. Tuning Fork
- r. Ultra-Low Frequency
- s. Ultrasonic
- t. Video Pattern
- u. Video Range

Accurate Instrument Co., a, b, c, q.
Adler Electronics, Inc., d, i, n, r.
Aerojet-General Corp.
Aerolab Development Co., a.
Aetna Electronics Corp., r, s.
Airborne Instruments Lab., Div.-Cutler-Hammer, Inc., d, m, n.
Aircom Inc., i, p.
Alfred Electronics, i, p.
Amelco, Inc., c, m, n, q.
Amerac Inc., d, i, k.
American Machine & Foundry Co., Government Products Group, c.
American Machine & Foundry Co., Greenwich, i, k, m, n.
American Missile Products Co., Inc., a.
Amplifier Corp. of America, b, q.
Andersen Labs., a, b, c, f, j, k, l, o, p, r.
Antlab Inc., b.
Applied Radiation Corp., d, i.
Arenberg Ultrasonic Lab., Inc., k, s.
B & K Instruments, Inc., a, c.
Barker Sales Co., f.
Barker & Williamson Inc., a, c, g, h.
Rex Bassett, Inc., g, h, j, m, n.
Bell & Gossett Co., a, b, k, q.
Bendix Aviation Corp., York Div., i, k.
James G. Biddle Co., c.
Blonder-Tongue Labs., Inc., t, u.
Briggs Associates, Inc., a.
Brush Instruments, Div.-Clevite Corp., a.
Bud Radio Inc., a.
Bulova Watch Co., Electronics Div., a, c, f, j, k, m, n, p, r.
CGS Labs., Inc., d, i,
California Technical Industries, Div.-Textron Inc., i.
Carol Electronics Corp., a, c.
Centronix Inc., a, b, m, n, o.
Chalco Engrg. Corp., a, c, a.
Chrysler Corp., Defense Operations Div., d, i.
Coils-Electronics, a.
Cooper Development Corp., Sub.-Marquardt Aircraft Co., n.
Crosby Laboratories, Inc., n.
Curtiss-Wright Corp., Research Div., s.
Data-Control Systems, Inc., a.
Daven Co., The, a, c, l, p, s.
Di-An Controls, Inc., b.
Donner Scientific Co., a, c, r.
Dorsett Labs., Inc.
Doty Acoustica Electronic Labs., a, c.
Douglas Microwave Co., Inc., d, i.
Dresser Industries, Inc., a, c, p, r.
Dymec Inc., a.
Electronic Communications, Inc., i, m, n.
Electronic Engrg. Co. of California, a, f, k.
Electronic Instrument Co., Inc. (EICO), a, c, g, h, l, m, p.
Electronics Div., Van Norman Industries Inc., d, i, m, n.
Electronics International Co., a, c.
Elgin Micronics Div.-Elgin National Watch Co., a, b.
Engrg. Associates, a, c, i, m, n, r.
Ensco, Inc., a.
Entron, Inc., m, n.
FXR, Inc., p.
Federal Mfg. & Engrg. Corp., a, d, i, k, m.
Ferrotron Electronics Co., Inc., f.
Fisher Research Lab., Inc., c, m.
Foto-Video Labs., Inc., t, u.
General Communication Co., i, n.
General Devices, Inc., a, b, k, m, n, o.
General Electric Co., Apparatus Sales Div., m, n, s.
John Gombos Co., Inc., d.
Good Electronic Corp., f, a.
Gyrex Corp., The, b, q.
Hammarlund Mfg., Co., Inc., a, c.
Hewlett-Packard Co., a, c, i, m, n, p, r, s, u.
Hill Electronics, Inc., c, f, j, m, r, s.
ITT Federal Div., International Telephone & Telegraph Corp., g, i, k, m, n.
Industrial Test Equipment Co., a, b, c, l, p, q.
Instrument Labs., a, c.
Instruments For Industry, Inc., j, m, n.
International Electronic Research Corp., a, c.
J-V-M Microwave Co., i, l.
E. F. Johnson Co., f, m, n.
Kauke & Co., a.
Kay Electric Co., a, c, f, i, k, m, n, p, r thru u.
*KEARFOTT CO., INC., d, i.
Kin Tel Div.-Cohu Electronics, Inc., s.
Kinevox Div.-Electromation Co., k.
Lampkin Labs., Inc., M.R. Div., m.
La Pointe Industries Inc., d, i.
Lavoie Laboratories Inc., j.
Lear, Inc., m, n.
Levinthal Electronic Products, Inc., i, k.
Litton Industries, Maryland Div.
MF Electronics Co., a, c.
Manson Labs., Inc., f, j, m.
Marconi Instruments, c, j, m, n, p, s.
Massa Div.-Cohu Electronics, Inc., s.
Mc Kenna Labs., s.
Measurements Div., Mc Graw Edison Co., f, g, h.
Microwave Associates, Inc., i.
Midwestern Instruments, Inc., a.
Miratel, Inc., a, k, m, n, u.
Monogram Precision Industries, h, i.
Motorola Inc., Military Electronics Div., a thru n, p, q, s, u.
Narda Ultrasonics Corp., The, s.
National Pneumatic Co., Inc., Holtzer-Cabot Divs., a, c, f, m, n, p.
National Ultrasonic Corp., s.
Networks Electronic Corp., a, c.
Ernest Norman Laboratories, f, j.
Northeast Electronics Corp., a, c, k, r.
Northern Engrg. Laboratories, Inc., f, j.
Paco Electronics Co., Inc., m, n.
Philco Corp., Government & Industrial Div., a, c, i, k, m thru p, u.
Piasecki Aircraft Corp., a, c.
Polarad Electronics Corp., i, k.
Portchester Instrument Corp., d, f, i.
Power-Tronic Systems Inc., a, b, c, j, p, q, r.
Precise Development Corp., a, c, e, g, h, m, n, p, r, s, t.
Precision Apparatus Co., Inc., a, m, n, p.
Radar Design Corp., i, m, n.
Radiaphone Co. Inc.
Radionics, Inc., k, s.
Reeves-Hoffman Div., c, f, j.
Resdel Engrg. Corp., d, f, i.
Rese Engrg., Inc., k.
Riverbank Labs., Dept.-Engrg., b, q.
Rixon Electronics Inc., a, c.
Rollan Electric Co., a.
Scientific-Atlanta, Inc., i.
Southwestern Industrial Electronics Co., a.
Specialty Engrg. & Electronics Co., a, k.
Spectrum Instruments, Inc., a, c, r.
Sperry Electronic Tube Div., Sperry Rand Corp., d, i.
H. W. Sullivan Ltd., a, b, c.
Systron Corp., c.
Tapco Group, Thompson-Ramo-Wooldridge Inc., b, f, q.
Technitrol Engrg. Co., p, u.
Telechrome Mfg. Corp., c, e, t, u.
Telectro Industries Corp., a, c, j thru n.
Tele-Dynamics Inc., a.
Telerad Mfg. Corp., d, i.
Teletronics Lab. Inc., l.
Tel-Instrument Electronics Corp., a, b, c, f, j, l, m, n, p, q, t.
Telonic Industries, Inc., a, c, d, f, k, m, n, p.
Trionics Corp., a, s.
Triplett Electrical Instrument Co., n, p.
United Electrodynamics, Inc., a.
U. S. Science Corp., Div.-Topp Industries, Inc., a, n.
Valpey Crystal Corp., f, j.
Varian Associates, d, i, m, n.
Vari-L Co., Inc., p.
Varo Mfg. Co., Inc., b, c, q.
Victor R. F. & Microwave Co., q.
Walkirt Co., a, b, c, f, j, q.
Waltham Electronics Corp., n, p.
Wang Labs., Inc., k.
Waveline, Inc., i.
Weinschel Engrg., b, d, i, n.
Wilks Precision Instrument Co., Inc., i.

OSCILLOGRAPHS
- a. Cathode Ray
- b. Cathode Ray Camera
- c. Cathode Ray Recording, Multi-Channel
- d. Direct Writing
- e. Multi-Channel
- f. Multi-Element
- g. Portable
- h. Projection
- i. Radar
- j. Recording
- k. Transient Study

Acton Labs. Inc., d, e.
Advanced Electronics Mfg. Corp., a.
Allegany Instrument Co., Inc., a, c, e, k.
Applied Science Corp. of Princeton, j.
Brush Instruments, Div.-Clevite Corp., a thru j.
Centronix Inc., c thru g, j, k.
Century Electronics & Instruments, Inc., d, e, g, j.
Chicago Aerial Industries, Inc., b.
Consolidated Electrodynamics Corp., a, b, c thru g, j.
Data-Control Systems, Inc., e.
Dresser Industries, Inc., a, c thru g, j, k.
E. I. Du Pont De Nemours & Co. Inc., Photo Products Dept., j.
Edgerton, Germeshausen & Grier, Inc., a, b, c, j.
Edin-Div.-Epsco, Inc., d, e, g, j.
Electro-Medical Lab., Inc., d.
Electronic Tube Corp., a, b, c.
Epic, Inc., e, j.
General Electric Co., Apparatus Sales Div., a, e, f, g, j, k.
General Electric Co., X-Ray Dept., b.
Gordon Enterprises, b, c, g.
Hamilton Watch Co., Hathaway Instrument Div., a, c, j.
Hamilton Watch Co., Industrial Div., j.
Heiland Div.-Minneapolis-Honeywell, d thru g, j, k.
Hogan Laboratories, Inc., e, f, j.
Hughes Aircraft Co., d, g.
ITT Labs.-Ft. Worth, a, b, h, i, k.
Industrial Television Inc., a.
Land-Air Inc., a, g.
Legris Co.
Lumatron Electronics, Inc., b, i.
Magnetic Instrument Co. Inc., d.
Massa Div.-Cohu Electronics, Inc., d thru g, j, k.
Midwestern Instruments, Inc., d, e, g, j.
Minneapolis-Honeywell Regulator Co., Industrial Product Group, d thru g, j, k.
Miratel, Inc., a, i.
Motorola Inc., Military Electronics Div., i.
New England Scientific Instruments Co., c, f, j, k.
Offner Electronics Inc., d, e, g, j.
Paco Electronics Co., Inc., a.
Photron Instrument Co., d thru g, j.
Precise Development Corp., a, c, e, g, k.
Precision Apparatus Co., Inc., a.
Sanborn Co., a, c, d, e, j.
Scientific-Atlanta, Inc., j.
Seiscor Mfg. Co., e, j.
Southwestern Industrial Electronics Co.
Strand Engrg. Co., b, i.
Sun Electric Corp., Aeronautical Div., d, e, f, j, k.
Technology Instrument Corp., d, e, g, j.
Waterman Products Co., Inc., a, e, g, i, j.
Wollensak Optical Co., j, k.

OSCILLOSCOPE, SCALES
See SCALES, OSCILLOSCOPE

OSCILLOSCOPES
- a. Cathode Ray
- b. Cathode Ray-Multiple Channel
- c. Portable
- d. Portable Projection

Carol Electronics Corp., a, c.
Daven Co., The, a.
Divco-Wayne Electronics, Div.-Divco-Wayne Corp., a, c.
Dresser Industries, Inc., a, b, c.
Edgerton, Germeshausen & Grier, Inc., a.
Edin-Div.-Epsco, Inc., c.
Electro Instruments, Inc., a.
Electronic Industries, c.
Electronic Instrument Co., Inc. (EICO), a.
Electronic Tube Corp., a, b, c.
Electro-Tech Equipment Co., a, c.
Foto-Video Labs., Inc., a.
General Communication Co., a.
Hewlett-Packard Co., a, b, c.
ITT Labs.-Ft. Worth, a.
Industrial Television Inc., a.
Kaiser Aircraft & Electronics, Div.-Kaiser Industries Corp., a, c.
Kingston Electronics-Div.-Kingston Industries Inc., a, c.
Land-Air Inc., a, c.
Lavoie Laboratories Inc., a, b.
Levinthal Electronic Products, Inc., b.
Lumatron Electronics, Inc., a, b, c.
Marconi Instruments, a.
Miratel, Inc., a.
Paco Electronics Co., Inc., a.
Philco Corp., Government & Industrial Div., a, c.
Pioneer Industries Div., Almar-York Co. Inc., a, c.
Precise Development Corp., a, b, c.
Precision Apparatus Co., Inc., a.
Probescope Co. Inc., a.
Railway Communications Inc., b.
Sanborn Co., a, b.
Scopes Co., Inc., The, a, b, c.
Simpson Electric Co., a, c.
Southwestern Industrial Electronics Co.
Specialty Engrg. & Electronics Co., a.
Telectro Industries Corp., a.
Triplett Electrical Instrument Co., a, c.
Waterman Products Co., Inc., a, b, c.
Wright Engrg. Co., a, b.

OUTLETS, ANTENNA

Entron, Inc.
Javex Electronics
E. F. Johnson Co.
Mark Products Co.
Technical Appliance Corp.

OVENS
- a. Crystal
- b. Environmental Testing
- c. Infra-Red Drying
- d. Temperature Controlled

Aerojet-General Corp., d.
Aeronautical & Instrument Div., Robertshaw-Fulton Controls Co., a.
American Felt Co., a.
American Gas Furnace Co., d.
American Instrument Co., Inc., b, d.
*ASSOCIATED TESTING LABS., INC., b, d.
Astravac Corp., b.
Rex Bassett, Inc., a.
Blue M Electric Co., b, d.
Bulova Watch Co., Electronics Div., a.
Central Scientific Co., d.

Cincinnati Cleaning & Finishing Machinery, a thru d.
Clark Crystal Co.
Cox & Co., Inc., a.
Curtiss-Wright Corp., Santa Barbara Div., b, d.
Diversey Engrg. Co., d.
El Ray Motor Co., Inc., a.
Fisher Scientific Co., d.
Gardner Laboratory, Inc., b, d.
General Testing Labs., Inc., b, d.
Grant Chemical Co., Inc., d.
Grieve-Hendry Co., Inc., a, c.
Guardite Co., Div. of American Marietta Co., b.
Paul Hardeman, Inc., b.
Hevi-Duty Electric Co., b, d.
High Vacuum Equipment Corp., b.
Hull Corp., b.
Hunt Corp., The, a, d.
Huppert, K. H., Co., b, d.
International Radiant Corp., b, d.
Kinney Mfg. Div., The New York Air Brake Co., b, d.
Kirk & Blum Mfg. Co., The, b, d.
Lavoie Laboratories Inc., a, d.
Magee-Bralla & Associates, b, d.
Magnetic Controls Co., a.
Manson Labs., Inc., a.
Mc Coy Electronics Co., a.
Miskella Infra-Red Co., The, c.
Missimers Inc., b.
Motorola Inc., Military Electronics Div., a.
Northern Engrg. Laboratories, Inc., a.
Pacific Scientific Co., d.
Papesch & Kolstad, Inc., d.
Piezo Crystal Co., a.
Premier Research Labs., Inc., a, d.
R & R Engrg. Co., d.
Reeves-Hoffman Div., a.
Rixon Electronics Inc., a.
Scientific Engrg. Labs., Inc., b, d.
Selas Corp. of America, d.
State Testing Lab. Inc., b, d.
Statikil, Inc., Div.-The J. E. Doyle Co., c.
F. J. Stokes Corp., a.
Surface Combustion Corp., d.
Temperature Engrg. Corp., b, c, d.
Tenney Engrg., Inc., b, d.
U. S. Industries, Inc., b.
Valpey Crystal Corp., a, d.
Waltham Electronics Corp., a, d.
Wright Electronics Inc., a.
Young Brothers Co., b, d.

OXIDIZERS

Air Products, Inc.
***ALLIED CHEMICAL CORP., GENERAL CHEMICAL DIV.**
Allied Chemical Corp., Nitrogen Div.
American Rocket Co.
Becco Chemical Div.-Food Machinery & Chemical Corp.
Escambia Chemical Corp.
Lithium Corp. of America, Inc.
MSA Research Corp.
Olin Mathieson Chemical Corp., Energy Div.
Pennsalt Chemicals Corp.
Shell Chemical Corp., Industrial Chemicals Div.
Special Projects Lab., Food Machinery & Chemical Corp.

OXYGEN APPARATUS & BREATHING EQUIPMENT

Aeronautical & Instrument Div., Robertshaw-Fulton Controls Co.
***AIRESEARCH MFG. CO., DIV.-THE GARRETT CORP.**
Aro Equipment Corp.
Bendix Aviation Corp., Pioneer-Central Div.
Bobrick Mfg. Corp.
Cambridge Co.-Div.-Carrier Corp.
Herbert Cooper Co., Inc.
Fisher Scientific Co.
General Scientific Equipment Co.
Walter Kidde & Co., Inc., Aviation Div.
H. Koch & Sons
Linde Co., Div.-Union Carbide Corp.
Mine Safety Appliances Co.
J. J. Monaghan Co., Inc.
Oxygen Equipment & Service Co.
Puritan Compressed Gas Corp., Aviation Div.
Fred T. Roberts & Co.
Scott Aviation Corp.
Superior Air Products Co.
Winzen Research Inc.

OXYGEN EQUIPMENT CONNECTOR
See CONNECTOR, OXYGEN EQUIPMENT

OXYGEN EQUIPMENT DEHYDRATORS
See DEHYDRATORS, OXYGEN EQUIPMENT

OXYGEN, LIQUID
See LIQUID OXYGEN

OXYGEN SYSTEMS & CONTROLS

Aerojet-General Corp.
Aerotec Corp., The
Air Products, Inc.
***AIRESEARCH MFG. CO., DIV.-THE GARRETT CORP.**
Aro Equipment Corp.
Bendix Aviation Corp., Pioneer-Central Div.
Bobrick Mfg. Corp.
Bowser, Inc., Defense Dept.
Cambridge Co.-Div.-Carrier Corp.
Consolidated Controls Corp.
Dynamic Devices, Inc.
Essex Mfg., Co., Inc.
G. W. Galloway Co.
Hagan Chemicals & Controls, Inc.
Paul Hardeman, Inc.
Hofman Labs., Inc.
***HYDRO-AIRE CO., DIV.-CRANE CO.**
Hydromatics, Inc.
Kahn & Co., Inc.
Walter Kidde & Co., Inc., Aviation Div.
Linde Co., Div.-Union Carbide Corp.
MSA Research Corp.
Minneapolis-Honeywell Regulator Co.,-Aeronautical Div.
Oxygen Equipment & Service Co.
Parts Engrg. Co., Inc.
Pneu-Hydro Valve Corp.
Project Fabrication Corp.
Puritan Compressed Gas Corp., Aviation Div.
Research Controls
Sargent Engrg. Corp.
Scott Aviation Corp.
Sterns-Roger Mfg. Co.
Superior Air Products Co.
***ULTRA-VIOLET PRODUCTS, INC.**
United Electric Controls Co.
Vinson Mfg. Co. Inc.
Winzen Research Inc.

PACK SETS

Collins Radio Co.
Double E Products Co.
Electronic Communications, Inc.
ITT Labs.
L E L, Inc.
***MIRAX CHEMICAL PRODUCTS CORP., METAL CONTAINER DIV.**
Motorola Inc., Military Electronics Div.
Telectro Industries Corp.
Winder Aircraft Corp. of Florida

PACKAGING, ELECTRONIC EQUIPMENT, SERVICE ONLY

Applied Design Co.
Armour & Co., Armour Alliance Industries
Bendix Aviation Corp., York Div.
Carmody Corp.
Centronix Inc.
Champion Co., The
Cleveland Metal Specialties Co., Electronics Div.
Continental Technical Service, Inc.
Cooper Development Corp., Sub.-Marquardt Aircraft Co.
Craig Systems, Inc.
Crystal-X Corp.
Curtiss-Wright Corp., Santa Barbara Div.
Double E Products Co.
Eckol Packaging Co.
Emerson Electric Mfg. Co., The, Electronics & Avionics Div.
First Electronics Corp., The
Ford Instrument Co., Div.-Sperry Rand Corp.
Good Electronic Corp.
Lyon Van & Storage Co., Aircraft Div.
Ralph M. Parsons Co., The, Electronics Div.
Pneumafil Corp.
Reinhold Engrg. & Plastics Co.
Roberts Industries Inc.
Sheltered Workshops
Skydyne, Inc.
Specialty Engrg. & Electronics Co.
Topper Mfg. Co., Inc.
Vendorlator Mfg. Co.
Wintronics

PACKAGING MATERIALS

Allied Plastics Supply Corp.
Applied Design Co.
Bemis Brothers Bag Co.
Champion Co., The
Colonial Rubber Co.
Crystal-X Corp.
Dayton Rubber Co., The
Dow Chemical Co., The
Enfab Inc.
Fidelity Chemical Products Corp.
General Box Co.
Gering Products, Inc.
Gilman Brothers Co., The
B. F. Goodrich Co., The
Krylon, Inc.
Lyon Van & Storage Co., Aircraft Div.
Minnesota Mining & Mfg. Co.
Mosinee Paper Mills Co.
Plastic Film Co., Inc.
Pry Welding & Mfg., Inc.
Roberts Industries Inc.
Seal-Peel, Inc.
Thiokol Chemical Corp.
United States Plywood Corp.
Vendorlator Mfg. Co.
Western Coating Co.
Winzen Research Inc.
Young & Rioux Woodworking Co., Inc.
Zophar Mills Inc.

PAINT, METALLIC

Arco Co., The
Bel Fuse Inc.
Borden Chemical Co.
Samuel Cabot Inc.
Carboline Co.
Cooper Industries, Inc.
Dennis Chemical Co.
B. F. Drakenfeld & Co., Inc.
E. I. Du Pont De Nemours & Co., Inc.
Dyna-Therm Chemical Corp.
Emerson & Cuming, Inc.
Fidelity Chemical Products Corp.
Krylon, Inc.
Maas & Waldstein Co.
Micro-Circuits Co.
Organic Products Co.
Protex-A-Cote, Inc.
Vorac Co., The

PAINTS

Arco Co., The
Borden Chemical Co.
Samuel Cabot Inc.
Carboline Co.
Cooper Industries, Inc.
Dennis Chemical Co.
E. I. Du Pont De Nemours & Co. Inc.
Dyna-Therm Chemical Corp.
Maas & Waldstein Co.
Micro-Circuits Co.
Midland Industrial Finishes Co.
Minnesota Mining & Mfg. Co.
National Lead Co.
Protex-A-Cote, Inc.
United States Varnish Co.
Vorac Co., The
Waldom Electronics Inc.

PAINTS, FLUORESCENT & PHOSPHORESCENT

***ULTRA-VIOLET PRODUCTS, INC.**

PANEL ASSEMBLIES, JACK
See JACK PANEL ASSEMBLIES

PANEL BOARDS, ELECTRIC

Accurate Electronics Corp., Dept. D.
Aerodex, Inc.
Aerolite Electronics Corp.
Allied Plastics Supply Corp.
Allis-Chalmers
American Electronics, Inc., Taller & Cooper Div.
Anchor Metal Spinning Co., The
Anchor Specialty Mfg. Co. Inc.
Bernco Engrg. Corp.
Carmody Corp.
Chrysler Corp., Defense Operations Div.
Cole Electric Co.
Comco Plastics Inc.
Continental Diamond Fibre Corp.
Continental Technical Service, Inc.
Control Engrg. Co., Div.-Jervis B. Webb Co.
Cutler-Hammer Inc.
Devco Engrg. Inc.
Electromath Corp.
Electro-Mechanical Products Co.
***ELECTROSNAP CORP.**
Eljay Corp.
Emmco Plastic Fabricators-Div.-E. M. McCarthy Machine Co.
First Electronics Corp., The
General Electric Co., Apparatus Sales Div.
Good Electronic Corp.
Gunnar Laboratories
Paul Hardeman, Inc.
A. F. Holden Co., The
I-T-E Circuit Breaker Co.
Jeta, Inc.
Johns-Manville
Johns-Manville Sales Corp.
Kelsey-Hayes Co.
Kennedy Van Saun Mfg. & Engrg. Corp.
Keystone Electronics Corp.
Kirk & Blum Mfg. Co., The
Mansfield Fabricators Inc.
Miller Dial & Nameplate Co.
Mullenbach Div.-Electric Machinery Mfg. Co.
George L. Nankervis Co.
National Electronics
National Pneumatic Co., Inc., Holtzer-Cabot Divs.
North Electric Co.
Panel Engrg. Corp.
Projects Unlimited Inc.
Richardson Scale Co.
Rimak, Inc.
St. Regis Paper Co., Panelyte Div.
Schaffer Air Industries, Inc.
Standard Electric Time Co., The
Talley Corp., The
Taylor Electric Inc.
Telectro Industries Corp.
Tucson Instrument Corp.
United Aircraft Products, Inc.

PANELS
a. Fibre
b. Instrument
c. Jack
d. Receiver & Transmitter
e. Relay Rack
f. Wood & Plywood

A & P Metal Products Mfg. Corp., a.
Accurate Electronics Corp., Dept. D, a, b, c.
Ackerman Engravers, Inc., b.
Acromark Co., The, b.
Aerolite Electronics Corp., a, b, c.
Allied Plastics Supply Corp., a.
Alpitec, Inc., c, d, e.
Amphenol Connector Div., Amphenol-Borg Electronics Corp., c.
Anchor Metal Spinning Co., The
Anchor Specialty Mfg. Co. Inc., b thru f.
Audio Development Co., c.
Belock Instrument Corp., b.
Bergen Carbide Co., b.
Bristol Co., The, b.
Bud Radio Inc., b thru e.
Canadian Radium & Uranium Corp., b.
Carmody Corp., b, c, e, f.
Centronix Inc., d.
Chemold Co., a.
Coaxial Connector Co. Inc., c.
Comco Plastics Inc., a.
Continental Diamond Fibre Corp., a.
Cornell Deep Drawing Co., Div.-Lanes Industries Corp., b.
Craig Systems, Inc., b, e.
Croname Inc., b.
Dahlstrom Metallic Door Co., c, d, e.
Dayton Aviation Radio & Equipment Corp., b, d.
Detronic Industries, a, b, d.
Devco Engrg. Inc., b.
Henry G. Dietz Co., Inc., b.
Donner Scientific Co., c.
Duralith Corp., a, b.
Electric Auto-Lite Co., The, b.
Electrical Insulation Co., Inc., a, b, c.
Electrocraft, Inc., c.
Electro-Mechanical Products Co., a thru e.
***ELECTROSNAP CORP., a, b, f.**
Eljay Corp., a thru e.
Elzee Metal Products Co., Inc., b thru e.
Emerson Plastics Corp., a.
Emmco Plastic Fabricators-Div.-E. M McCarthy Machine Co., a, f.
Engineered Plastics, Inc., a, b.
Etched Products Corp., b.
***ETS-HOKIN & GALVAN, b, c, e.**
Falstrom Co., b.
Fischer & Porter Co., b.
Fisher & Crome, a thru e.
Fletcher Mfg. Co., Inc., The, a thru f.
Foto-Video Labs., Inc., b, c.
Franklin Fibre-Lamitex Corp., a.
Gunnar Laboratories, a, e.
Hagan Chemicals & Controls, Inc., b.
Harco Labs., Inc., c.
Ludwig Honold Mfg. Co., d.
Industrial Engrg. Corp., b.
Industrial Engravers, Inc., b.
Intercontinental Dynamics Corp., b.
ITT-Kellogg, c, e.
Jodee Plastics Co.
Johns-Manville, a.
Kahn & Co., Inc., b.
Kerrco Products, b.
Keystone Electronics Corp., a, c.
Kirk & Blum Mfg. Co., The, b, e.
Liss Products, Inc., a, f.
Thomas J. Long, Inc., a thru f.
R. H. Lynch Mfg. Co., b, e.
Mansfield Fabricators Inc., a.
Maryland Etching Co. Inc., b, d.
Met-L-Wood Corp., f.
Mid-West Metal Products, Inc., d, e.
Miller Dial & Nameplate Co., b.
Minneapolis-Honeywell Regulator Co., Industrial Div., b, c.
Minneapolis-Honeywell Regulator Co., Industrial Product Group, b, c.
Minnesota Mining & Mfg. Co., a.
***MIRAX CHEMICAL PRODUCTS CORP., ELECTRO-MECHANICAL PRODUCTS DIV., b.**
Monogram Precision Industries, a, e, f.
Mullenbach Div.-Electric Machinery Mfg. Co., c.
National Electronics, b.
National Pneumatic Co., Inc., Holtzer-Cabot Divs., c, d, e.
North Electric Co., c, e.
Panel Engrg. Corp., a, b, d.
Papesch & Kolstad, Inc., b.
Penn Fibre & Specialty Co., Inc., a.
Pilgrim Products Inc., b.
Plasteck, Inc., b.
Pneumafil Corp., b.
Premier Metal Products Co., e.
Prereg Mfg. Inc., a thru d.
Projects Unlimited Inc., c, d, e.
Q-Circuits, Div.-Etching Co. of Calif., b.
Railway Communications Inc., e.
Ravenna Metal Products, Div.-Standard Screw Co., c.
Reinhold Engrg. & Plastics Co., a.
Edw. Renneburg & Sons Co., b.
Rimak, Inc., a thru e.
Rogers Corp., a.
Smith-Morris Corp., b.
Space Corp., b.
Spaulding Fibre Co., Inc., a.
Stanley Aviation Corp., a, c.
Sun Dial Corp., b, c.
Switchcraft, Inc., c.
Trimount Instrument Co., b.
Tucson Instrument Corp., b.
United States Radium Corp., b.
Universal Moulded Products Corp., a, f.
Universal Unlimited, Inc., b, d.
Waldom Electronics Inc., b.
Waltham Horological Corp., c.
Watson Mfg. Co., Inc., b.
Westronics Inc., b.
Wilmington Fibre Specialty Co., a.
Wyco Metal Products, e.
Young & Rioux Woodworking Co., Inc., f.

PANELS, PATCH
See PATCH PANELS

PAPER, INSULATION

Allied Plastics Supply Corp.
Auburn Mfg. Co., The
Carborundum Co., Refractories Div.
Electrical Insulation Co., Inc.
Franklin Fibre-Lamitex Corp.
Integrated Mica Corp.
Jodee Plastics Co.
Johns-Manville
Johns-Manville Sales Corp.
Thomas J. Long, Inc.
Mansfield Fabricators Inc.
Mica Insulator Div.-Minnesota Mining & Mfg., Co.
Minnesota Mining & Mfg. Co.
Monogram Precision Industries
Mosinee Paper Mills Co.
Natva Corp.
Penn Fibre & Specialty Co., Inc.
Pilgrim Products Inc.
Rogers Corp.
Peter J. Schweitzer Div.
Spaulding Fibre Co., Inc.,
Union Asbestos & Rubber Co.
Wilmington Fibre Specialty Co.

PAPER, RECORDING

Alfax Paper & Engrg. Co.
Bristol Co., The
E. I. Du Pont De Nemours & Co. Inc.
E. I. Du Pont De Nemours & Co. Inc., Photo Products Dept.
Eastman Kodak Co.
Hagan Laboratories, Inc.
Minneapolis-Honeywell Regulator Co., Industrial Div.
Minneapolis-Honeywell Regulator Co., Industrial Product Group
Minnesota Mining & Mfg. Co.
Sanborn Co.
Peter J. Schweitzer Div.

PAPERS, FACSIMILE RECORDING

Alfax Paper & Engrg. Co.
Hagan Laboratories, Inc.
Kay Electric Co.
Minnesota Mining & Mfg. Co.

PARABOLAS, MICROWAVE

Alpar Mfg. Corp.
American Machine & Foundry Co., Greenwich
Brooks & Perkins, Inc.
Bulow Electric Co.
Dresser Industries, Inc.
Houston Fearless Corp.
ITT Labs.
Intercontinental Mfg. Co., Inc.
J-V-M Microwave Co.
D. S. Kennedy & Co.
Mark Products Co.
McMillan Industrial Corp.
Monogram Precision Industries
Philco Corp., Government & Industrial Div.
Radiation, Inc.
Republic Aviation Corp.
Sperry Microwave Electronics Co., Div.-Sperry Rand Corp.
Teiner Engrg. Corp.

PARACHUTE HARDWARE

Amatom Electronic Hardware Co., Inc.
American Aluminum Co.
Capewell Mfg. Co.
Carmac Aviation
Century Fasteners Corp.
Cooper Development Corp., Sub.-Marquardt Aircraft Co.
Corbin Products Div.
***FLEXONICS CORP., AERONAUTICAL DIV.**
Gentex Corp.
***HARTFORD MACHINE SCREW CO., DIV.-STANDARD SCREW CO.**
H. Koch & Sons
Pacific Scientific Co.
Pioneer Parachute Co., Inc.
Precision Shapes, Inc.

PARACHUTES

Cooper Development Corp., Sub.-Marquardt Aircraft Co.
Gentex Corp.
Pioneer Parachute Co., Inc.
Reliance Mfg. Co.-Industrial Products & Parachute Div.
Stanley Aviation Corp.

PARTICLE ACCELERATORS
See ACCELERATORS, PARTICLE

PASSIVE MICROWAVE REPEATERS
See REPEATERS, PASSIVE, MICROWAVE

PASTE & CEMENT, GASKET
See GASKET PASTE & CEMENT

PASTE, SILVER
See SILVER PASTE

PATCH CORDS

AMP Inc.
Aerolite Electronics Corp.
Alden Products Co.
Amatom Electronic Hardware Co. Inc.
Associated Engrg. Corp.
Atlantic Instrument Corp., Sub.-American Electronics, Inc.
Audio Development Co.
W. A. Beauchain & Sons Inc.
Bernco Engrg. Corp.
Birnbach Radio Co., Inc.
Coaxial Connector Co. Inc.
Detronic Industries
Electromath Corp.
Entron, Inc.
First Electronics Corp., The
ITT-Kellogg
Milgo Electronic Corp.
National Pneumatic Co., Holtzer-Cabot Divs.
North Electric Co.
Paul Nurches Co.
Milton Ross Metals Co., The
Sequoia Wire & Cable Co.-Div.-Mandrel Industries, Inc.
Switchcraft Inc.
Telectro Industries Corp.
Vector Electronic Co.
Virginia Electronics Co., Inc.
Waltham Horological Corp.
Webcor, Inc., Government Div.
Western International Co.
Westwood Cable Corp.

PATCH CORDS, CONNECTORS

AMP Inc.
Aerolite Electronics Corp.
Audio Development Co.
W. A. Beauchaine & Sons Inc.
Birnbach Radio Co., Inc.
Coaxial Connector Co. Inc.
Detronic Industries
First Electronics Corp., The
Milgo Electronic Corp.
National Pneumatic Co., Inc., Holtzer-Cabot Divs.
North Electric Co.
Milton Ross Metals Co., The
Switchcraft, Inc.
Telectro Industries Corp.
Virginia Electronics Co., Inc.
Waltham Horological Corp.
Western International Co.
Westwood Cable Corp.

PATCH CORDS, STUDIO

Audio Development Co.
First Electronics Corp., The
Mullenbach Div.-Electric Machinery Mfg. Co.
National Pneumatic Co., Inc., Holtzer-Cabot Divs.
Switchcraft, Inc.
Virginia Electronics Co., Inc.
Westwood Cable Corp.

PATCH PANELS

AMP Inc.
Aerolite Electronics Corp.
Amelco, Inc.
American Missile Products Co., Inc.
Audio Development Co.
Cambridge Thermionic Corp.
Duralith Corp.
Electrocraft, Inc.
Engineered Plastics, Inc.
***ETS-HOKIN & GALVAN**
First Electronics Corp., The
Kilgen Aircraft Div.
Kirk & Blum Mfg. Co., The
Milgo Electronic Corp.
Miller Dial & Nameplate Co.
Mullenbach Div.-Electric Machinery Mfg. Co.
National Pneumatic Co., Inc., Holtzer-Cabot Divs.
North Electric Co.
Switchcraft, Inc.
United Electrodynamics, Inc.
United States Radium Corp.
Vector Electronic Co.
Virginia Electronics Co., Inc.
Waltham Horological Corp.
Webcor, Inc., Government Div.
Western International Co.

PEDESTALS

ACF Industries Inc.
Adept Industries Inc.
Alpar Mfg. Corp.
American Machine & Foundry Co., Government Products Group
American Machine & Foundry Co., Greenwich
Anchor Metal Spinning Co., The
Antlab Inc.
Atlas Precision Products, Co.
Basic Tool Industries, Inc.

Capital City Mfg. Co.
Diversey Engrg. Co.
Gabriel Co., The, Gabriel Electronics Div.
Goodyear Aircraft Corp.
Houston Fearless Corp.
I-T-E Circuit Breaker Co.
Piasecki Aircraft Corp.
Premier Metal Products Co.
Edw. Renneburg & Sons Co.
Scientific-Atlanta, Inc.
Teiner Engrg. Corp.
United Shoe Machinery Corp., Ordnance Dept.
Wayne Pump Co., The, Div.-Symington Wayne Corp.
Western Gear Corp.

PERISCOPE TYPE SEXTANTS
See SEXTANTS, PERISCOPE TYPE

PERMANENT MAGNETS
See MAGNETS, PERMANENT

PERMEAMETERS, HIGH H

Thiokol Chemical Corp.

PERMEATERS, RF

Thiokol Chemical Corp.

PHASE MODULATORS
See MODULATORS, PHASE

PHASEMETERS

Air Logistics Corp.
Dytronics Co.
Epic, Inc.
Hamilton Watch Co.-Industrial Div.
Industrial Test Equipment Co.
Knopp Inc.
Nems Clarke Co., Div.-Vitro Corp. of America
New England Scientific Instruments Co.
North Atlantic Industries, Inc.
Seiscor Mfg. Co.
Theta Instrument Corp.
Trio Laboratories, Inc.
Weston Instruments, Div.-Daystrom, Inc.
Wintronics

PHASING & COUPLING UNITS
See COUPLING & PHASING UNITS

PHOSPHORS, FLUORESCENT COMPOUNDS
See FLUORESCENT COMPOUNDS, PHOSPHORS

PHOTO ETCHED COMPONENTS

Accurate Electronics Corp., Dept. D.
Adept Industries Inc.
Bendix Aviation Corp., York Div.
Etched Products Corp.
Landsverk Electrometer Co., The
Maryland Etching Co. Inc.
Motorola Inc., Military Electronics Div.
Pacific Moulded Products
Q-Circuits, Div.-Etching Co. of Calif.
United States Chemical Milling Corp.
Wesrep Corp.
Zenith Optical Laboratory

PHOTOCELLS & PHOTOTUBES

American Elite, Inc.
Clairex Corp.
Eastman Kodak Co.
Edgerton, Germeshausen & Grier, Inc.
Epic, Inc.
Ferranti Electric Inc.
General Electric Co., Apparatus Sales Div.
General Electrodynamics Corp.
Graflex Inc.
Hoffman Electronics Corp., Semiconductor Div.
ITT Labs.-Ft. Wayne
International Rectifier Corp.
Jem Electronics Corp.
Philco Corp., Government & Industrial Div.
Qutronic Semi Conductor Corp.
Rex Corp., The, Sub.-American Enka
Sterling Precision Corp., Instrument Div.

PHOTOELECTRIC CELLS

Clairex Corp.
Eastman Kodak Co.
Edgerton, Germeshausen & Grier, Inc.
Electron-Radar Products
Epic, Inc.
Ferranti Electric Inc.
General Electric Co., Apparatus Sales Div.
Hoffman Electronics Corp., Semiconductor Div.
ITT Labs.-Ft. Wayne
Jem Electronics Corp.
Micro Balancing, Inc.
Photo-Crystals, Inc.
Weston Instruments, Div.-Daystrom, Inc.

PHOTOELECTRIC COLORIMETERS
See COLORIMETERS, PHOTOELECTRIC

PHOTOFLASH EQUIPMENT, ELECTRONIC

American Speedlight Corp.
Beattie-Coleman, Inc.
Charles Beseler Co.
Burke & James Inc.
Chadwick-Helmuth Co.
Davenport Mfg. Co.
Edgerton, Germeshausen & Grier, Inc.
Eicor Div.-Scranton
General Electric Co., X-Ray Dept.
Gordon Enterprises
Graflex Inc.
Heiland Div.-Minneapolis-Honeywell
Indikon Co., Inc., The
Kemlite Laboratories, Inc.
Modelectric Products Corp.
Nems Clarke Co., Div.-Vitro Corp. of America
Sterling-Howard Corp.
Technical Apparatus Builders

PHOTOGRAPHIC EQUIPMENT

Bar-Ray Products, Inc.
Bell & Howell Co.
Charles Beseler Co.
Burke & James Inc.
Camera Mart Inc., The
Cameraflex Corp.
Chadwick-Helmuth Co.
Chicago Aerial Industries, Inc.
Eastman Kodak Co.
Edgerton, Germeshausen & Grier, Inc.
Elgeet Optical Co., Inc.
J. W. Fecker, Inc.
Federal Mfg. & Engrg. Corp.
Flight Research, Inc.
General Electric Co., X-Ray Dept.
General Photo Products Co., Inc.
Gordon Enterprises
Graflex Inc.
Houston Fearless Corp.
Jansky & Bailey, Inc.
Land-Air Inc.
Logetronics Inc.
Lux Clock Mfg. Co., Inc.
Metalphoto Corp.
Mitchell Camera Corp.
Morse Instrument Co., The
Neumade Products Corp.
Optomechanisms Inc.
Paragon-Revolute Corp.
Peck & Harvey Mfg. Corp.
Peerless Photo Products Inc.
Reed Research Inc.
Sequoia Wire & Cable Co., Div.-Mandrel Industries, Inc.
Sterling-Howard Corp.
Traid Corp.
Transmares Corp.
Vought Co.
Weston Instruments, Div.-Daystrom, Inc.
Wollensak Optical Co.
Zoomar Inc.

PHOTOGRAPHIC MATERIALS, SPECTROGRAPHIC INSTRUMENTS

***BAUSCH & LOMB OPTICAL CO.**
E. I. Du Pont De Nemours & Co. Inc.
Eastman Kodak Co.
General Electric Co., X-Ray Dept.
Gordon Enterprises
National Spectrographic Labs., Inc.
New England Scientific Instruments Co.
Vought Co.

PHOTOGRAPHIC MATERIALS, X-RAY FILMS

Eastman Kodak Co.
General Electric Co., X-Ray Dept.
Gordon Enterprises

PHOTOMETERS

Eldorado Electronics
J. W. Fecker, Inc.
Fisher Scientific Co.
National Spectrographic Labs., Inc.
Optomechanisms Inc.
Photovolt Corp.
Process & Instruments
Weston Instruments, Div.-Daystrom, Inc.
Zoomar Inc.

PHOTOTUBES & PHOTOCELLS
See PHOTOCELLS & PHOTOTUBES

PICKUP ARMS

Duotone Co., Inc.
H. H. Scott, Inc.
Webcor, Inc., Government Div.

PICKUPS
a. Industrial
b. Pressure
c. Temperature
d. Vibration

Aero Research Instrument Co. Inc., b, c.
***ARNOUX CORP.**, c.
Atlantic Instrument Corp., Sub.-American Electronics, Inc., c.
Atlantic Research Corp., b.
B & K Instruments, Inc., d.
Chesapeake Instrument Corp., d.
G. L. Collins Corp., b, d.
Consolidated Diesel Electric Corp., b, c.
Consolidated Electrodynamics Corp., b, d.
Curtiss-Wright Electronics Div., IMI Branch, b.
Datran Electronics, Div.-Mid-Continent Mfg., Inc., b.
Daystrom Pacific Div.-Daystrom, Inc., b, c.
Dresser Industries, Inc., b, c, d.
Electro Products Laboratories, Inc., a, d.
Electronic Control Corp., c.
Endevco Corp., b, d.
Fischer & Porter Co., a, b, c.
Gulton Industries, Inc., b, c, d.
Kin Tel Div.-Cohu Electronics, Inc., b, d.
Kollsman Instrument Corp., Sub.-Standard Coil Products Co. Inc., b.
Land-Air Inc., d.
Leeds & Northrup Co., c.
MB Mfg. Co., d.
Micrometrical Mfg. Co., d.
Minneapolis-Honeywell Regulator Co., Boston Div., d.
Minneapolis-Honeywell Regulator Co., Industrial Div., a, b, c.
Minneapolis-Honeywell Regulator Co., Industrial Product Group, c.
Norwood Controls Unit Detroit Controls Div., b.
Pacific Scientific Co., c, d.
Rosemount Engrg. Co., b, c.
Arthur C. Ruge Associates, Inc., c.
Schaevitz Engrg., b.
H. H. Scott, Inc., d.
Standard Controls, Inc., b.
Statham Instruments, Inc., a, b.
Tel-Instrument Electronics Corp., d.
Thermo Electric Co., Inc., c.
Trans-Sonics, Inc., b, c.
Ultradyne, Inc., b.
Yellow Springs Instrument Co., The, c.

PILOT LIGHT ASSEMBLIES

Accurate Electronics Corp., Dept. D
Aerolite Electronics Corp.
Alden Products Co.
Amatom Electronic Hardware Co. Inc.
American Machine & Foundry Co., Government Products Group
Carling Electric, Inc.
Cutler-Hammer Inc.
Dialight Corp.
Eagle Electric Mfg. Co. Inc.
Eldema Corp.
***ELECTROSNAP CORP.**
Electro-Tech Equipment Co.
Fidelity Amplifier Co.
General Electric Co., Apparatus Sales Div.
Green Rectifier Co.
Grimes Mfg. Co.
E. F. Johnson Co.
Korry Mfg. Co.
Marco Industries Co.
Scam Instrument Corp., The
Signalite Inc.
Telectro Industries Corp.
Transistor Electronics Corp.

PILOTS, AUTOMATIC

Atlas Precision Products, Co.
Bendix Aviation Corp., Eclipse-Pioneer Div.
Fletcher Mfg. Co., Inc., The
Hamilton Standard, Div.-United Aircraft Corp.
ITT Labs.
Lear, Inc.
Lear, Inc., Grand Rapids Div.
Minneapolis-Honeywell Regulator Co.-Aeronautical Div.
Northrop Corp.
Philco Corp., Government & Industrial Div.
Ryan Aeronautical Co.
Servomechanisms, Inc.
Southwestern Industrial Electronics Co.
Sperry Farragut Co., Div.-Sperry Rand Corp.
Sperry Piedmont Co.-Div.-Sperry Rand Corp.

PINS, TUBULAR

American Brass Co., The
Baldwin Mfg. Co. Inc., The
Bland Burner Co., The
Cooper Industries, Inc.
Elastic Stop Nut Corp. of America
Keystone Electronics Corp.
Standard Pressed Steel Co.
United Mfg. Co., The

PITOT TUBES

Aero Research Instrument Co. Inc.
Airtronics International Corp.
Flow Corp.
E. Vernon Hill & Co.
Peerless Machine Co.
Precision Sheet Metal, Inc.
Servomechanisms, Inc.
Wilks Precision Instrument Co., Inc.

PLASTIC, ELECTRICALLY CONDUCTIVE

American Aerophysics Corp.
American Insulator Corp.
American Printed Circuits Co., Inc.
Brilhart Plastics Corp.
Brook Molding Corp.
Crystal-X Corp.
DBM Research Corp.
Dayton Aircraft Products, Inc.
Emerson & Cuming, Inc.
Franklin Fibre-Lamitex Corp.
Furane Plastics Corp. of New Jersey
Goodyear Tire & Rubber Co., The, Aviation Products Div.

Grant Chemical Co., Inc.
Haveg Industries, Inc.
Houghton Laboratories, Inc.
Jessall Plastics
Lebec Chemical Corp.
Lone Star Plastics Co., Inc.
Marblette Corp., The
Micro-Circuits Co.
Minnesota Mining & Mfg. Co.
New England Tape., Div.-United-Carr Fastener Corp.
Republic Aviation Corp.
W. S. Shamban & Co.
Sierracin Corp., The
Silicone Insulation, Inc.
Swedlow Inc.
Topper Mfg. Co., Inc.
Waterbury Companies, Inc.
Zippertubing Co., The

PLASTIC LIGHTING PLATES

See PLATES, PLASTIC, LIGHTING

PLASTIC MOLDERS

See MOLDERS, PLASTIC

PLASTICS FABRICATORS & FINISHERS

Accurate Electronics Corp., Dept. D.
Adept Industries Inc.
Aerolite Electronics Corp.
Air Logistics Corp.
Aircraft Precision Products, Inc.
Allied Plastics Supply Corp.
American Aerophysics Corp.
American Agile Corp.
American Latex Products Corp.
American Rocket Co.
Anchor Specialty Mfg. Co. Inc.
Apex Reinforced Plastics, Div.-White Sewing Machine Corp.
Associated Engrg. Corp.
Atkins & Merrill, Inc.
Auburn Mfg. Co., The
W. A. Beauchaine & Sons Inc.
Blossom Mfg. Co. Inc.
Bonny Mfg. Corp.
Brilhart Plastics Corp.
Calfibe Co., Inc.
Chemold Co.
Chemplast, Inc.
Chicago Gasket Co.
Chicago Molded Products Corp.
Colonial Aircraft Corp.
Comco Plastics Inc.
Conn-Craft Co.
Continental Diamond Fibre Corp.
Cornell Deep Drawing Co., Div.-Lanes Industries Corp.
Crystal-X Corp.
Curtiss-Wright Corp.-Utica Div.
DBM Research Corp.
Dayton Aircraft Products, Inc.
Delta Products Div.-Air Accessories, Inc.
Devcon Corp.
Double E Products Co.
Duralith Corp.
Electrical Insulation Co., Inc.
Eljay Corp.
Emeloid Co., Inc., The
Emerson Plastics Corp.
Emmco Plastic Fabricators Div. E. M. McCarthy Machine Co.
Engineered Plastics, Inc.
Erie Resistor Corp.
Fabri-Form Co., The
Fisher & Crome
Fletcher Mfg. Co., Inc., The
Flexrock Co.
Formica Corp.
Franklin Fibre-Lamitex Corp.
Furane Plastics, Inc.
GAR Mfg. Corp.
General American Transportation Corp.
General Gasket Inc.
Gering Products, Inc.
Globe Electrical Mfg. Co.
Goodyear Aircraft Corp.
Grant Chemical Co., Inc.
Hampden Mfg. Co., Inc.
Hardman Tool & Engrg. Co.
Haveg Industries, Inc.
Hoosier Tarpaulin & Canvas Goods Co., Inc.
Houghton Laboratories, Inc.
Joclin Mfg. Co.
Jodee Plastics Co.
Johns-Manville
Johns-Manville Sales Corp.
Kerrco Products
Keystone Electronics Corp.
H. Koch & Sons
Kurz-Kasch, Inc.
Lamtex Industries, Inc.
Liss Products, Inc.
Lone Star Plastics Co. Inc.
Thomas J. Long, Inc.
Luminous Resins Inc.
Lux Clock Mfg. Co., Inc.
Luzerne Rubber Co.
M & Q Plastic Products
Mansfield Fabricators Inc.
Maryland Etching Co., Inc.
Mc Millan Industrial Corp.
Mica Insulator Div.-Minnesota Mining & Mfg., Co.
Minneapolis-Honeywell Regulator Co., Industrial Product Group
Minnesota Mining & Mfg. Co.
***MIRAX CHEMICAL PRODUCTS CORP., METAL CONTAINER DIV.**
J. J. Monaghan Co., Inc.
Monrovia Aviation Corp.
Mueller Brass Co.
National Vulcanized Fibre Co.
M. M. Newman Corp.
Orange Products, Inc.
Panel Engrg. Corp.
Peerless Products Industries
Penn Fibre & Specialty Co., Inc.
Perry Plastics, Inc.
Piasecki Aircraft Corp.
Pilgrim Products, Inc.
Plasteck, Inc.
Plastic Age Sales, Inc.
Polyken Sales Div., The Kendall Co.
Polymer Corp., The
Prewitt Aircraft Co.
Republic Aviation Corp.
Resistoflex Corp.
Rex Corp., The, Sub.-American Enka
Rogers Corp.
Russell Reinforced Plastics Corp.
St. Regis Paper Co., Panelyte Div.
Schlegel Mfg. Co.
D. A. Schultz Co.
Scientific-Atlanta, Inc.
W. S. Shamban & Co.
Sierracin Corp., The
Slip Ring Co. of America
Sparta Mfg. Co., Div.-U.S. Ceramic Tile Co.
Spaulding Fibre Co., Inc.
Swedlow Inc.
Sylvania Electric Products Inc., Parts Div.
Taylor Electric Inc.
H. I. Thompson Fiber Glass Co.
Topper Mfg. Co., Inc.
Tri-Point Plastics Inc.
Turbo Products, Inc.
U. S. Fiber & Plastics Corp.
United States Chemical Milling Corp.
Universal Moulded Products Corp.
Virginia Plak Co.
Vichek Tool Co., The
Westlake Plastics Co.
Winzen Research Inc.
Yardley Plastics Co.
Young Development Div., Hercules Powder Co.
Zippertubing Co., The

PLASTICS, REINFORCED

See REINFORCED PLASTICS

PLATE & SHEET MICA

See MICA, PLATE & SHEET

PLATES, INSTRUCTION

Acromark Co., The
Adept Industries Inc.
Allied Plastics Supply Corp.
W. H. Brady Co.
Croname Inc.
Duralith Corp.
Emeloid Co., Inc., The
Industrial Engravers, Inc.
Jodee Plastics Co.
Maryland Etching Co. Inc.
Jas. H. Matthews & Co.
Miller Dial & Nameplate Co.
Minnesota Mining & Mfg. Co.
Monogram Precision Industries
Q-Circuits, Div.-Etching Co. of Calif.
Roovers-Lotsch Corp.
D. A. Schultz Co.
United States Radium Corp.
Virginia Plak Co.
Waterbury Companies, Inc.

PLATES, METAL OR PLASTIC

Acromark Co., The
Adept Industries Inc.
All Boro Metal Products Co., Inc.
Allied Plastics Supply Corp.
Aluminum Co. of America
American Agile Corp.
Aristocrat Plastics, Inc.
Atkins & Merrill, Inc.
Bergen Carbide Co.
Carl H. Biggs Co.
W. H. Brady Co.
Bridgeport Brass Co.
Bud Radio Inc.
Challenge Machinery Co., The
Chemplast, Inc.
Continental Diamond Fibre Corp.
Croname Inc.
Division Lead Co.
Dow Chemical Co., The
Duralith Corp.
Electrical Insulation Co., Inc.
Electro-Mechanical Products Co.
Eljay Corp.
Emeloid Co., Inc., The
Emerson Plastics Corp.
Erie Resistor Corp.
Etched Products Corp.
Farwell Metal Fabricating
Ferris-Mfg. Co., The
Fisher & Crome
Fletcher Mfg. Co., Inc., The
Franklin Fibre-Lamitex Corp.
GAR Mfg. Corp.
Industrial Engravers, Inc.
International Nickel Co., The
Javex Electronics
Jodee Plastics Co.
Kaiser Aluminum & Chemical Sales, Inc.
Lamtex Industries, Inc.
Lone Star Plastics Co. Inc.
M & Q Plastic Products
Maryland Etching Co. Inc.
Jas. H. Matthews & Co.
Metals & Controls Corp., General Plate Div.
Miller Dial & Nameplate Co.
Minnesota Mining & Mfg. Co.
Monogram Precision Industries
National Vulcanized Fibre Co.
Perry Plastics, Inc.
Plasteck, Inc.
Polymer Corp., The
Q-Circuits, Div.-Etching Co. of Calif.
Roovers-Lotsch Corp.
Milton Ross Metals Co., The
Russell Reinforced Plastics Corp.
Joseph T. Ryerson & Son, Inc.
Sanford Plastics Corp.
D. A. Schultz Co.
Smith-Morris Corp.
Stanley-Judd Div.-The Stanley Works
Tranter Mfg., Inc.
United States Radium Corp.
Virginia Plak Co.
Waldom Electronics Inc.
Wrought Washer Mfg., Co.

PLATES, PLASTIC LIGHTING

Allied Plastics Supply Corp.
W. H. Brady Co.
Duralith Corp.
Eljay Corp.
Emeloid Co., Inc., The
Fisher & Crome
Jodee Plastics Co.
Miller Dial & Nameplate Co.
Panel Engrg. Corp.
Perry Plastics, Inc.
Plastic Age Sales, Inc.
Russell Reinforced Plastics Corp.
United States Radium Corp.

PLATFORMS, FIRING

Acco Equipment Div.- American Chain & Cable Co., Inc.
***ALUMINUM SAFETY PRODUCTS, INC.**
Chicago Bridge & Iron Co.
Cooper Development Corp., Sub.-Marquardt Aircraft Co.
Diversey Engrg. Co.
Jack & Heintz, Inc.
Kaiser Aircraft & Electronics, Div.-Kaiser Industries Corp.
Land-Air Inc.
Monogram Precision Industries
Newbrook Machine Corp.
Opelika Welding, Machine & Supply Inc.
Robot Industries Inc.
Smith-Morris Corp.
***R. D. WERNER CO., INC.**

PLATING, PRECIOUS METAL

Alloys Unlimited Inc.
J. Bishop & Co., Platinum Works
Bram Metallurgical & Chemical Co.
Brooks & Perkins, Inc.
Brown Engrg. Co., Inc.
Cohan Epner Co. Inc.
Electro Development Co.
Engelhard Industries, Inc.
Etched Products Corp.
Graflex Inc.
Kelsey-Hayes Co.
Land-Air Inc.
M-W Labs. Inc.
Metalectro Lab.
Metals & Controls Corp., General Plate Div.
Pacific Scientific Co.
Precision Electroplating Co.
Precision Plating Co., Inc., The
Q-Circuits, Div.-Etching Co. of Calif.
Savage-Rowe Plating Co., Inc.
Sel-Rex Corp.
Slip Ring Co. of America
Spectronic Plating Co., Inc., Div.-Spectranome Plating Co., Inc.
Steel Improvement & Forge., The
Sylvania Electric Products Inc., Parts Div.
Technical Apparatus Builders
United Plating Works
United States Chemical Milling Corp.

PLATING, TIN ZINC

Anchor Metal Co. Inc.
Brooks & Perkins, Inc.
Cohan Epner Co. Inc.
Curtiss-Wright Corp.-South Bend Div.
Graflex Inc.
Har-Conn Chrome Co.
Kelsey-Hayes Co.
Lux Clock Mfg. Co., Inc.
Metalectro Lab.
Minnesota Mining & Mfg. Co.
Precision Plating Co., Inc., The
Savage-Rowe Plating Co., Inc.
Steel Improvement & Forge., The
Technical Apparatus Builders
Ultra Electroforming & Mfg. Co.
United Plating Works

PLIERS

Barrett-Christie Co.
Billings & Spencer Co., The
Hunter Tool Co.
J. I. Morris Co.
Snap-On-Tools Corp.
Waldes Kohinoor, Inc.

PLOTTERS, X-Y

Alwac Corp.
Benson-Lehner Corp.
Bristol Co., The
Brush Instruments, Div.-Clevite Corp.
Centronix Inc.
Chrysler Corp., Defense Operations Div.
Electro Instruments, Inc.
Gilmore Industries, Inc.
Hufford Corp., The
Industrial Engravers, Inc.
Leeds & Northrup Co.
Librascope Inc.
Milgo Electronic Corp.
Minneapolis-Honeywell Regulator Co., Industrial Product Group
F. L. Moseley Co.
Motorola Inc., Military Electronics Div.
New England Scientific Instruments Co.
Philco Corp., Government & Industrial Div.
Radiation, Inc.
Sanborn Co.
Tally Register Corp.
Telechrome Mfg. Corp.
U. S. Science Corp., Div.-Topp Industries, Inc.
Waldorf Electronics, Div.-F. C. Huyck & Sons
Westronics Inc.

PLOTTING BOARDS
See BOARDS, PLOTTING

PLUG BOARDS
See BOARDS, PLUG

PLUG-IN-CIRCUIT UNITS

Airflyte Electronics Co.
Alden Products Co.
American Missile Products Co., Inc.
Barker Sales Co.
Beckman-Systems Div.
Bendix Aviation Corp., York Div.
Burton-Rodgers, Inc.
Centralab, Div.-Globe-Union
Centronix Inc.
Chalco Engrg. Corp.
Cole Electric Co.
Daystrom Pacific Div.-Daystrom, Inc.
Di-An Controls, Inc.
Dietz Design & Mfg. Co.
Doty Acoustica Electronic Labs.
Dresser Industries, Inc.
Electromath Corp.
Electronic Engrg. Co. of California
Emerson Electric Mfg. Co., The, Electronics & Avionics Div.
Erie Resistor Corp.
Ferranti Electric Inc.
Foto-Video Labs., Inc.
General Electric Co., Computer Dept.
Good Electronic Corp.
Hoffman Electronics Corp., Semiconductor Div.
Land-Air Inc.
MF Electronics Co.
Motorola Inc., Military Electronics Div.
National Pneumatic Co., Inc., Holtzer-Cabot Divs.
***PACKARD-BELL ELECTRONICS CORP.**
George A. Philbrick Researches, Inc.
Philco Corp., Government & Industrial Div.
Precision Circuits, Inc.
Projects Unlimited Inc.
Radiaphone Co. Inc.
Radiation, Inc.
Rese Engrg., Inc.
Milton Ross Metals Co., The
Special Instruments Div., British Industries Corp.
Topper Mfg. Co., Inc.
Vitro Labs.
Walkirt Co.
Webcor, Inc., Government Div.

PLUGS

a. Computer Board
b. Connector
c. Dehydrator
d. Expansion
e. Hardware
f. Metallic
g. Non-Metallic
h. Printed Circuit
i. Telephone
j. Terminal

AMP Inc., h, j.
Accurate Electronics Corp., Dept. D, a, b, e thru h, j.
Aerolite Electronics Corp., b.
Alden Products Co., b.
Amatom Electric Hardware Co. Inc., e, h, j.
American Felt Co., g.
American Missile Products Co., Inc., a.
American Standard Products, Inc., b, e, f.
Amphenol Connector Div., Amphenol-Borg Electronics Corp., b.
Anton Electronic Labs., Inc., b.
Armel Electronics, Inc., b, g, h.
Arrow-Hart & Hegeman Electric Co., The, b.
Atmo Seal Co., j.
Audio Development Co., i.
W. A. Beauchaine & Sons Inc., b.
Best Aircraft Corp., a.
Birnbach Radio Co., Inc., b, h, i, j.
Bland Burner Co., The, e.
Burndy Corp., Omaton Div., b, h, j.
Burroughs Corp., a.
Cable Electric Products Inc., b.
Calinoy-Div.-Illinois Tool Works, e, f, g.
Cambridge Thermionic Corp., a, b, h, j.
***CANNON ELECTRIC CO., b.**
Carmac Aviation
Centralab, Div.-Globe-Union, g, h.
Century Fasteners Corp., b, e, f, j.
Chandler Evans Corp., c.
Clover Industries, Inc., b, f, g.
Coaxial Connector Co. Inc., b, f.
Cole Electric Co., a, b.
Eagle Electric Mfg. Co. Inc., b.
Elco Corp., b, h.
Electrical Insulation Co., Inc., g.
Electrocraft, Inc., b, i.
Garde Mfg. Co., b, h.
Gladding, McBean & Co., b, g, h.
Good Electronic Corp., h.
Harco Labs., Inc., b.
Hobson Brothers, Inc., b, j.
ITT-Kellogg, i.
Javex Electronics, b, f, g.
Joclin Mfg. Co., g.
E. F. Johnson Co., b.
Howard B. Jones Div.-Cinch Mfg. Corp., b.
Keystone Electronics Corp., e, j.
Kickhaefer Mfg. Co., d.
Korda Industries, b.
Kulka Electric Corp., b.
La Pointe Industries Inc., h.
Litton Industries, U. S. Engrg. Co., Div., e, f, j.
Malco Mfg. Co., h, j.
P. R. Mallory & Co. Inc., a, b, e.
J. E. Menaugh Co., g, j.
Metal Textile Corp., Electronics Div., f.
Milgo Electronic Corp., a.
Minneapolis-Honeywell Regulator Co., Industrial Product Group, g.
National Pneumatic Co., Inc., Holtzer-Cabot Divs., b, i, j.
National Tel-Tronics Corp., i, j.
North Electric Co., i.
Norton Co., New Products Dept., g.
***PACKARD-BELL ELECTRONICS CORP., a, h.**
Milton Ross Metals Co., The, b, h, j.
Rubbercraft Corp. of California, g.
Silicone Insulation, Inc., g.
Slip Ring Co. of America, a.
Specialty Engrg. & Electronics Co.
Specialty Plug & Cap. Co., g.
Standard Electric Time Co., The, b.
Stromberg-Carlson Div.-General Dynamics Corp., i.
Superex Electronics Corp., i.
Switchcraft, Inc., i.
Tower Mfg. Corp., b.
Transistor Electronics Corp., a.
Ucinite Co., The, Div.-United-Carr Fastener Corp., b, h, i.
Vector Electronic Co., b.
W-S Fittings Works, Forge & Fittings Div., H. K. Porter Co. Inc., f.
Waldom Electronics Inc., j.
Waltham Horological Corp., b, i.
Webcor, Inc., Government Div., h.
Western International Co., b, f, g, i.
Wrought Washer Mfg., Co., d.

PLYWOOD MANUFACTURERS

***AIRESEARCH MFG. CO. OF ARIZ.**
Liss Products, Inc.
United Electric Controls Co.
United States Plywood Corp.
Universal Moulded Products Corp.

PNEUMATIC CONTROLS & SYSTEMS

Adel Precision Products of California, Div.-General Metals Corp.
***AIRESEARCH MFG. CO., DIV.-THE GARRETT CORP.**
Aro Equipment Corp.
***ASSOCIATED TESTING LABS., INC.**
Barber-Colman Co.
***BENDIX AVIATION CORP., HAMILTON DIV.**
Bendix Utica Div., Bendix Aviation Corp.
Bristol Co., The
Cadillac Gage Co.
Carruthers & Fernandez, Inc.
Conoflow Corp.
Consolidated Controls Corp.
Consolidated Diesel Electric Corp.
Cooper Development Corp., Sub.-Marquardt Aircraft Co.
Cornelius Co., The, Aero Div.
Dresser Industries, Inc.
Dumont Aircraft Fitting Co.
Dynamic Controls Corp.
Gardner-Denver Co.
General Electric Co., Apparatus Sales Div.
Graflex Inc.
Greer Hydraulics, Inc.
Hamilton Standard, Div.-United Aircraft Corp.
Hannifin Co., Div.-Parker-Hannifin Corp.
Haskel Engrg. & Supply Co.
Walter J. Hyatt Co., The
Hydra-Power Corp.
Hydromatics, Inc.
Integral Corp.
Intercontinental Dynamics Corp.
Interstate Engrg. Corp.
Kahn & Co., Inc.
***KEARFOTT CO., INC.**
Walter Kidde & Co., Inc., Aviation Div.
Koehler Aircraft Products Co.
Lear, Inc.
Leslie Co.
Marotta Valve Corp.
Marquardt Aircraft Co.
Mason-Neilan
McDowell-Wellman Companies, The
Menasco Mfg. Co.
Minneapolis-Honeywell Regulator Co., Industrial Div.
Minneapolis-Honeywell Regulator Co., Industrial Product Group
National Instrument Laboratories, Inc.
National Pneumatic Co., Inc., Holtzer-Cabot Divs.
Ozone Metal Products Corp.
Pacific Scientific Co.
Pneu-Hydro Valve Corp.
Pneumatil Corp.
Reinhold Engrg. & Plastics Co.
Ryan Aeronautical Co.
Sargent Engrg. Corp.
Scientific Instrument Co.
Southwest Products Co.
Stratos, Div.-Fairchild Engine & Airplane Corp.
Surface Combustion Corp.
Tactair Valve Div.-Aircraft Products Co.
Talley Corp., The
Tapco Group, Thompson-Ramo-Wooldridge Inc.
Turbo Products, Inc.
United Aircraft Products, Inc.
United Control Corp.
U. S. Science Corp., Div.-Topp Industries, Inc.
Vinson Mfg. Co. Inc.
Waldorf Fluid Systems. Div.-F. C. Huyck & Sons
Webcor, Inc., Government Div.
Westinghouse Air Brake Co., Industrial Products Div.
Weston Hydraulics Ltd.-Sub., Borg-Warner Corp.
Westronics Inc.

PNEUMATIC STARTERS
See STARTERS, PNEUMATIC

PNEUMATIC SYSTEMS RESERVOIRS
See RESERVOIRS, PNEUMATIC SYSTEMS

POINTERS, DIAL

Adept Industries Inc.
Atlas Precision Products, Co.
Carmody Corp.
Dale Products, Inc.
Jodee Plastics Co.
Lux Clock Mfg. Co., Inc.
Maryland Etching Co. Inc.
PIC Design Corp., Sub.-Benrus Watch Co., Inc.
Panel Engrg. Corp.
Research Development Mfg. Inc.
Milton Ross Metals Co., The
United States Radium Corp.
Waldom Electronics Inc.
J. H. Winn Inc.

PORTABLE COMPRESSORS
See COMPRESSORS, PORTABLE

PORTABLE TRANSCEIVERS
See TRANSCEIVERS, PORTABLE

POSITION INDICATORS

***AIRESEARCH MFG. CO., DIV.-THE GARRETT CORP.**
Antlab Inc.
Atlas Precision Products, Co.
Bristol Co., The
Centronix Inc.
Chrysler Corp., Defense Operations Div.
G. L. Collins Corp.
Colorado Research Corp.
Daystrom Pacific Div.-Daystrom, Inc.
Electro Products Laboratories, Inc.
Ferranti Electric Inc.
General Electric Co., Aircraft Sales Div.
***KEARFOTT CO., INC.**
Land-Air Inc.
Lear, Inc.
Liquidometer Corp., The
Minneapolis-Honeywell Regulator Co., Industrial Div.

Motorola Inc., Military Electronics Div.
New England Scientific Instruments Co.
PIC Design Corp., Sub.-Benrus Watch Co., Inc.
Panel Engrg. Corp.
Philco Corp., Government & Industrial Div.
Raytheon Mfg. Co., Government Equipment Div.
Scientific-Atlanta, Inc.
Servomechanisms, Inc.
Tapco Group, Thompson-Ramo-Wooldridge Inc.
U. S. Science Corp., Div.-Topp Industries, Inc.
Waldorf Electronics, Div.-F. C. Huyck & Sons
Wind Turbine Co.
Wintronics

POTENTIOMETER TRIMMERS

Aero Electronics Corp.
Amelco, Inc.
Analogue Controls, Inc.
Bourns Labs., Inc.
Carter Mfg. Corp.
Centralab, Div.-Globe-Union
Clarostat Mfg. Co., Inc.
Colvin Labs., Inc.
Components Corp.
Dale Products, Inc.
Daystrom Pacific Div.-Daystrom, Inc.
Edcliff Instruments
Electromath Corp.
Fairchild Controls Corp., Components Div.
Gamewell Co.
Helipot Div.-Beckman Instruments Inc.
New England Instrument Co.
Precision Line Inc.
George Rattray & Co.
Reon Resistor Corp.
Rinco, Inc.
Technology Instrument Corp.
Wesrep Corp.

POTENTIOMETERS

a. Absolute Pressure
b. Differential Pressure
c. High Resistance
d. High Voltage
e. Induction
f. Linear & Non-Linear Precision Carbon Film
g. Linear & Non-Linear Precision Wire Wound
h. Metallic Film
i. Portable Instrument
j. Precision
k. Precision Auto-Transformer
l. Precision Carbon Film
m. Printed Circuit
n. Rectilinear
o. Slidewire

Ace Electronics Associates, Inc., g, j, n.
Allegany Instrument Co., Inc., i.
American Electronics, Inc., e, j.
American Electronics, Incorporated, e.
American Electronics, Inc.-Instrument Div., e.
Analogue Controls, Inc., g, i, j.
Anton Electronic Labs., Inc., g, j, n, o.
B & H Instrument Co., Inc., g, i, j, o.
Bendix Aviation Corp., Friez Instrument Div., a.
Borg Equipment Div., Amphenol-Borg Electronics Corp., g, j, n.
Bourns Labs., Inc., a, b, c, f, g, l, j, m, n.
Carter Mfg. Corp., g, j.
Centralab, Div.-Globe-Union, f, g, m, n, o.
Chicago Aerial Industries, Inc., g, i, j, m, n, o.
Clarostat Mfg. Co., Inc., c, d, f, g, j, l, m, n.
G. L. Collins Corp., e, k.
Colorado Research Corp.
Colvin Labs., Inc., a, f, m.
Components Corp., g, i, j.
Computer Instruments Corp., a, b, c, f, j, l, n.
Continental Carbon, Div.-Wirt Co., g, m.
Control Circuits Inc., k.
Curtiss-Wright Corp., Electronics Div., g, j, m.
Dale Products, Inc.
Datran Electronics, Div.-Mid-Continent Mfg. Co., Inc., i.
Daystrom Pacific Div.-Daystrom, Inc., c, g, h, j.
Daystrom Transicoil Div., Daystrom Inc., e, j.
Dejur-Amsco Corp., Electronic Sales Div., c, g, j, n.
Diehl Mfg. Co., g, j.
Edcliff Instruments, a thru d, g, j, m.
Electromath Corp., c, g, i, j.
Electro-Measurements Inc., g, j.
Electro-Mec Lab. Inc., g.
Electro-Tech Equipment Co., i.
Engelhard Industries, Inc., e.
Epic, Inc., i, j.
Fairchild Controls Corp., Components Div., a, b, g, h, n.
Farmingdale Mfg. Corp., g, h, j.
Fischer & Porter Co., a, b.
Fisher Research Lab., Inc., i.
Gamewell Co., The, g, j.
G. M. Giannini & Co., Inc., a thru g, j, n, o.
Harco Labs., Inc., i.
Helipot Div.-Beckman Instruments Inc., c, e, g, h, j, n, o.
Hoffman Labs. Div., Hoffman Electronics Corp., n.
Hoover Electric Co., g, j.
Hughes Tool Co., Aircraft Div.
Humphrey, Inc., g, i, m.
International Resistance Co., h, i.
Javex Electronics, g.
***KEARFOTT CO., INC., e.**
Ketay Dept., Norden Div., United Aircraft Corp., e thru o.
Langevin Div., The W. L. Maxson Corp., k.
Leeds & Northrup Co., e, i, j, o.
Litton Industries, Inc., g.
P. R. Mallory & Co. Inc., f, g, h, m.
Markite Corp., c, f, j, n.
Minco Products, Inc., n.
Minneapolis-Honeywell Regulator Co., Aeronautical Div., g, j.
Minneapolis-Honeywell Regulator Co., Industrial Div., i, j, o.
Minneapolis-Honeywell Regulator Co., Industrial Product Group, a, b, c, i, j, o.
New England Instrument Co., g, n, o.
Osborne Electronic Sales Corp., g.
Pacific Scientific Co., g, j, n.
Palo Alto Engrg. Co., g.
Perkin-Elmer Corp., k.
Physics Research Laboratories, Inc., i.
Pickering & Co., Inc., e.
Precision Line Inc., c, d, g, j, m, n, o.
Rahm Instruments, Div.-American Machine & Metals, Inc., a, b.
George Rattray & Co., g, j.
Rawson Electrical Instrument Co., g.
Raymond Engrg. Lab., Inc., g, j, k.
Reon Resistor Corp., c, m.
Rinco, Inc., g, i, j, o.
San Fernando Electric Mfg. Co., g, j, o.
Shallcross Mfg. Co., c, g, i.
Special Instruments Div., British Industries Corp., a, b.
Spectrol Electronics Corp., c, d, g, j, m, o.
H. W. Sullivan Ltd., o.
Technique Associates Div., Duncan Electric Co., Inc., i.
Technology Instrument Corp., a thru o.
Thermo Electric Co., Inc., g, i, j.
Thwing-Albert Instrument Co., i.
Trans-Sonics, Inc., a, b.
Tucson Instrument Corp., g, j, n.
U. S. Science Corp., Div.-Topp Industries, Inc., c, g, j, k, n.
Vernistat Div., The Perkin-Elmer Corp., k.
Wesrep Corp., g, i, j, n, o.
Weston Instruments, Div.-Daystrom, Inc., h, j.
Westronics Inc., i.
Wright Engrg. Co., g, j, k.

POTS, SOLDERING

Alloys Unlimited Inc.
American Gas Furnace Co.
Dee Electric Co.
Electro-Tech Equipment Co.
General Electric Co., Apparatus Sales Div.
General Scientific Equipment Co.
A. F. Holden Co., The
Seal-Peel, Inc.
Temperature Engrg. Corp.
Waage Electric, Inc.

POTS & TANKS, HEATING

ACF Industries Inc.
American Gas Furnace Co.
Anchor Metal Spinning Co., The
Brighton Corp.
Electric Heater Co., The
Fidelity Chemical Products Corp.
General Electric Co., Apparatus Sales Div.
A. F. Holden Co., The
Hull Corp.
Pacific Scientific Co.
Reinhold Engrg. & Plastics Co.
Rolock Inc.
Seamless Products Co., Inc.
Temperature Engrg. Corp.
Waage Electric, Inc.
Western Coating Co.

POWDERED METAL GEARS
See GEARS, POWDERED METAL

POWDERED METAL PARTS FABRICATORS
See FABRICATORS, POWDERED METAL PARTS

POWER ABSORBERS

Consolidated Diesel Electric Corp., Test Equip. Div.
***MIRAX CHEMICAL PRODUCTS CORP., ELECTRO-MECHANICAL PRODUCTS DIV.**
Pacific Scientific Co.
Sun Electric Corp., Aeronautical Div.
Western Gear Corp.

POWER CONNECTORS
See CONNECTORS, POWER

POWER SOURCES, AUXILIARY
See AUXILIARY POWER SOURCES

POWER SOURCES, GROUND

a. Electric
b. Hydraulic
c. Mechanical
d. Pneumatic
e. Prime Movers

Adel Precision Products of California, Div.-General Metals Corp., b.
***AIRESEARCH MFG. CO. OF ARIZ., e.**
***AIRESEARCH MFG. CO., DIV.-THE GARRETT CORP., a, d.**
Allied International Co., a.
Amelco, Inc., a.
American Bosch Arma Corp., b.
American Brake Shoe Co., b.
American Electronics, Inc., Electric Machinery & Equipment Div., a, d.
American Machine & Foundry Co., Greenwich, a, b, c, e.
Apex Reinforced Plastics, Div.-White Sewing Machine Corp., d.
Associated Engineers, Inc., b, c, d.
Barker Sales Co., e.
Bendix Aviation Corp., York Div., a.
Bendix Utica Div., Bendix Aviation Corp., b, c, d.
Bogue Electric Mfg., Co., a thru d.
Bulow Electric Co., a, b.
Cardinal Instrumentation Corp., a.
Chrysler Corp., Defense Operations Div.
Consolidated Diesel Electric Corp., a thru d.
Continental Aviation & Engrg. Corp., d.
Cornelius Co., The, Aero Div., d.
Cummins Engine Co., Inc., e.
Curtiss-Wright Corp.-Utica Div., a, d, e.
Davenport Mfg. Co., a.
Delco-Remy Div., General Motors Corp., a.
Denison Engrg. Div., American Brake Shoe Co., b.
Dresser Industries, Inc., a, e.
Dumont Aircraft Fitting Co., b, d.
Eagle-Picher Co., The, a.
Eastern Industries Inc., b.
Electric Products Co., The, a.
Electro-Mechanical Products Co., a.
FWD Corp., a thru e.
Foote Bros. Gear & Machine Corp., c.
Gardner-Denver Co., d.
General Electric Co., Apparatus Sales Div., a, e.
Green Rectifier Co., a.
Greer Hydraulics, Inc., a thru d.
Guided Missile Div.-DeHavilland Aircraft of Canada, Ltd., a.
Hannifin Co., Div.-Parker-Hannifin Corp., b.
Haskel Engrg. & Supply Co., b, d.
Hertner Electric Co., The, a, e.
Hoover Electric Co., a, c.
Hycon Mfg. Co., a, b, d.
Hydra-Power Corp., b, d.
Industrial Engrg. Corp., b.
International Fermont Machinery Co., Inc., a, b, c, e.
Jack & Heintz, Inc., a, b, c.
Jeta, Inc., a thru e.
Kahn & Co., Inc., a, b, d.
***KEARFOTT CO., INC., a.**
Kelsey-Hayes Co., b.
Kemp Aero Products, b, c, d.
Leach Corp., a.
Lear, Inc., Grand Rapids Div., a.
Minneapolis-Honeywell Regulator Co., Ordnance Div., b.
***MOTOR GENERATOR CORP., a.**
Motoresearch Co., a.
Mullenbach Div.-Electric Machinery Mfg. Co., a.
Multi-Amp Corp., a.
Oil-Dyne, Inc., b.
D. W. Onan & Sons Inc., a, e.
Perkin Engrg. Corp., a.
Power Supplies Inc., a.
Pre-Flite Industries Corp.-Sub.-Avco Corp., a thru d.
Racine Hydraulics & Machinery Inc., b.
Red Lion Cabinet Co., Redco Tool Div., b.
Republic Aviation Corp., a.
Rucker Co., The, b, d.
Safety Electrical Equipment Corp., a.
Sargent Engrg. Corp., b, d.
Schaffer Air Industries, Inc., b.
Skyline Electric & Mfg. Co., a thru d.
Solar Aircraft Co., a, c, d, e.
Space Corp., b, e.
Stratos, Div.-Fairchild Engine & Airplane Corp., d.
Sun Electric Corp., Aeronautical Div., a, b, d.
Talley Corp., The, a, c, d.
Tapco Group, Thompson-Ramo-Wooldridge Inc., a, b, d.
Technical Apparatus Builders, a.
Telectro Industries Corp., a.
United Aircraft Products, Inc., a thru d.
U. S. Relay Co., a.
Universal Metal Products Inc., a.
Vickers Inc., Div.-Sperry Rand, b.
Vickers Inc., Marine & Ordnance Dept., Machinery Hydraulics Div., b.
Waste King Corp., Technical Products Div., c.
Watertown Div., The New York Air Brake Co., b.
Western Gear Corp., a thru e.
Westinghouse Electric Corp., a, e.
***WHITE DIESEL ENGINE DIV., THE WHITE MOTOR CO., e.**
Wickfield, Inc., b, c, d.
Wincharger Corp., Sub.-Zenith Radio Corp., a.

POWER SOURCES, PROPELLANT CARTRIDGES

***PROPELLEX CHEMICAL DIV., CHROMALLOY CORP.**

POWER SUPPLIES

a. AC
b. DC
c. Emergency, Mobile
d. 400 CPS
e. High Voltage
f. Klystron
g. Magnetic
h. Regulated
i. Seals
j. Transmitter
k. Transistor

l. Variable
m. Voltage Regulated

***AC ELECTRONICS DIV., GENERAL MOTORS CORP.**
ACF Industries Inc., a, b, h.
AMP Inc., h, l, m.
Acme Electric Corp., a, b, g, h, k, l, m.
Aerojet-General Corp., a, b, d, m.
Aerolab Development Co., a thru e, g thru m.
Air Logistics Corp., a, c, j, l, m.
Air Reduction Sales Co., Div.-Air Reduction Co., Inc., a, b.
Aircom Inc., f.
***AIRESEARCH MFG. CO. OF ARIZ.**, a, b.
***AIRESEARCH MFG. CO., DIV.-THE GARRETT CORP.**, a thru e, m.
Airpax Electronics Inc., Seminole Div., d.
Alco Products, Inc. c.
Alfred Electronics, e, f, h, m.
Allied International Co., a, b, c.
Alto Scientific Co., Inc., k.
Amelco, Inc., a, b, d thru h, j thru m.
American Electronics, Inc., a, b, d, e, g, h, k, l.
American Electronics, Inc., Electric Machinery & Equipment Div., a, d, h, k, l, m.
American Electronics, Inc., Taller & Cooper Div., a.
American Machine & Foundry Co., Greenwich, m.
American Missile Products Co., Inc., a, b, j, k, m.
American Research & Mfg. Corp., a, b, d, e, g, h, k, l, m.
Amplifier Corp. of America, a, b, d, h, k, l, m.
Anaheim Electronics Co., Inc., b, h, k, m.
Applied Research Labs., Inc., a, b, e, l.
***ARNOUX CORP.**, a, b, d, e, g, h, j, k, m.
Associated Engineers, Inc., h, k, m.
Associated Research, Inc., a, b, e.
Astronetics, Inc., c, g, k, l.
Atlantic Research Corp., b, m.
Atlas Engrg. Co. Inc., a thru m.
Audio Development Co., a, b, d, h, k, m.
Automatic Switch Co., c.
Babcock Radio Engrg., Inc., b, j.
Barker & Williamson Inc., a, b, e, k.
Barwood Electronics Inc., a, b, d, h.
Rex Bassett, Inc., b, e, j, k, m.
***BEHLMAN ENGRG. CO.**, a, d, l.
Bell Aircraft Corp., Niagara Frontier Div., k.
Belock Instrument Corp., a, b, d, e, j, k.
Bendix Aviation Corp., Red Bank Div., a thru h, j thru m.
Bendix Aviation Corp., York Div., d, e, h, j, k, m.
Bendix Utica Div., Bendix Aviation Corp., a, b, d.
Beva Lab., Inc., e, m.
Bogue Electric Mfg., Co., a thru d, f, g, j thru m.
Brach Mfg. Corp., Div.-General Bronze, a thru e, g, h, k, l, m.
Bracke-Seib X-Ray Co., Inc., a, b, e, l.
Brown Engrg. Co., Inc., d, k.
Budelman Electronics Corp., a, b, j.
Bulova Watch Co., Electronics Div.
Bulow Electric Co., a, b, d, k.
Cable Electric Products Inc., b.
California Technical Industries, Div.-Textron Inc., f.
Cardinal Instrumentation Corp., a, b, d thru h, k, l, m.
Carol Electronics Corp., b.
Carruthers & Fernandez, Inc., a, b, d, g, h, k, m.
Celco (Constantine Engrg. Labs. Co.), a, b, d thru h, k.
Central Transformer Co., b, e.
Chalco Engrg. Corp., a, b, d, e, g, h, k, l, m.
Chicago Aerial Industries, Inc., a, h, l, m.
Chicago Standard Transformer Corp., k.
Christie Electric Corp., b, d, g, h, k, l.
G. L. Collins Corp., a.
Colorado Research Corp., b, h, m.
Computer Engrg. Associates, Inc., a thru d, g, k.
Consolidated Avionics Corp., a thru l.
Consolidated Controls Corp., c.
Consolidated Diesel Electric Corp., a thru d, k.
Consolidated Diesel Electric Corp., Western Div., a thru e, l, m.
Consolidated Electrodynamics Corp., a, b, d, h.
Control Circuits Inc., a, b, e, k, l, m.
Cooper Development Corp., Sub.-Marquardt Aircraft Co., e, h, k.
Cubic Corp., f.
Cummins Engine Co., Inc., a thru d, m.
Curtiss-Wright Corp., Electronics Div., a, b, d, h, m.
Curtiss-Wright Corp., Research Div., b, l.
Curtiss-Wright Corp., Santa Barbara Div., c.
Curtiss-Wright Corp., Utica Div., c.
D. & R. Ltd., g, h.
Dalmotor Div., Yuba Consolidated Industries, Inc., a, b, d, e, g, k, m.
Data-Control Systems, Inc.
Datascan Inc., b, c, h, k, l, m.
Daven Co., The, a thru e, g thru m.
Davenport Mfg. Co., a, b, e thru h, k, l, m.
Dayton Aircraft Products, Inc., e, l, m.
Dayton Aviation Radio & Equipment Corp., a, b, d, h, j, k, m.
Del Electronics Corp., a thru e, h, k.
Delco-Remy Div., General Motors Corp., a, b, h, k, m.
Divco-Wayne Electronics, Div.- Divco-Wayne Corp., a thru e, g, h, l.
Donner Scientific Co., b, l, m.
Dorsett Labs., Inc., b, d, j, k, m.
Dresser Industries, Inc., a thru e, h, i, k, l, m.
Dresser Mfg. Div., Dresser Industries, Inc., b, h, m.
Dynamic Controls Co., b, d, g, h, k, m.
Eagle-Picher Co., The, b.
Eicor Div.-Scranton, a, d, k.
Elcor, Inc., b, e, h, k, l, m.
Electric Auto-Lite Co., The, b, e.
Electric Machinery Mfg. Co., d.
Electric Products Co., The, a thru d, l, m.
Electro Engrg. Works, a, b, d, e, h, j, l, m.
Electro Products Laboratories, Inc., b, l.
Electromath Corp.
Electro-Mechanical Products Co., a thru d, h, j, m.
Electronic Assembly Co., Inc., a thru h, j thru m.
Electronic Communications, Inc., a, b, d, e, g, h, j thru m.
Electronic Engrg. Co. of California, b, h, k, l, m.
Electronic Instrument Co., Inc. (EICO), k.
Electronic Research Associates, Inc., a, b, d, e, g, h, k, l, m.
Electronic Specialty Co., a, b, h, k.
Electronic Tube Corp., a, b, h, m.
Electronics of Clearfield, Inc., b.
Electronics International Co., a, d.
Electro-Tech Equipment Co., a, h, l, m.
Elgin Micronics, West Coast Div.-Elgin National Watch Co., a, b.
Emerson Radio & Phonograph Corp., a thru l.
Empire Products Sales Corp., a, f.
Endevco Corp., a, b.
Engineered Magnetics, Div.-Gulton Industries, Inc., a thru d, g, h, j, k, m.
Engrg. Associates, e, f.
Ensco, Inc., b, d, e, g.
Entron, Inc., h, m.
***ETS-HOKIN & GALVAN**, a, b, c.
FXR, Inc., f.
Fairchild Astrionics Div., Fairchild Engine & Airplane Corp., a, b, d, h, l, m.
Fairfield Engrg. Corp., a, b, g, h, k-1, s-1, b-2.
Ferrotran Electronics Co., Inc., a, b, h, k, l, m.
First Electronics Corp., The, a, b, e thru h, k, l, m.
Fisher Research Lab., Inc., k.
John Fluke Mfg. Co., Inc., b, e, f, h, l, m.
Fluorocarbon Co., The, i.
Foto-Video Labs., Inc., b, e, h, m.
Freed Transformer Co., Inc., b, m.
General Communication Co., b.
General Devices, Inc., a, b, d, e, g, i thru l.
General Electric Co., Apparatus Sales Div., a thru e, g, h, k, l, m.
General Magnetics, Inc., g, m.
Georator Corp., a thru d, l, m.
Geotronic Labs. Inc., d, e, g, h, k, m.
Good Electronic Corp., a, b, h, l, m.
Good-All Electric Mfg. Co., a, b, c, e, f, h, j thru m.
Gordon Enterprises, a, b, d.
Goslin Electric & Mfg. Co., a, b, d thru h, j, k, m.
Green Rectifier Co., a, b, d thru h, l, m.
Gremco, Inc., a thru d, m.
Guided Missile Div.-DeHavilland Aircraft of Canada, Ltd., a thru d, g, h, k, m.
Gulton Industries, Inc., b, d, g, h, k, m.
Hagan Chemicals & Controls, Inc., b.
Hallicrafters, b, e, h, j, k, m.
Hamilton Standard, Div.-United Aircraft Corp.
Harrison Labs., Inc., b, e, g, k, l, m.
Harvey-Wells Electronics Inc., a, e, g, j thru m.
Hertner Electric Co., The, a, b, d, e, h, l, m.
Hevi-Duty Electric Co., e, h, l.
Hewlett-Packard Co., a, f, l, m.
Hoffman Electronics Corp., Semiconductor Div., b.
Hoover Electric Co., a thru e, k, m.
Hughes Tool Co., Aircraft Div.
Hycon Mfg. Co., a, b, c, h, l, m.
***HYDRO-AIRE CO., DIV.-CRANE CO.**, a, b, k.
I-L-S Instrument Div., The Meriam Instrument Co., d, l.
Industrial Television Inc., d.
Industrial Test Equipment Co., a, d, h, l, m.
Instruments For Industry, Inc., b, h, j, k, m.
International Electronic Research Corp., a, d.
International Fermont Machinery Co., Inc., a thru d, h, m.
International Research Associates, a, b, d, f, g, j, k, l.
Interstate Electronics Corp., b.
Itek Corp., l.
Jack & Heintz, Inc., a thru e, g, h, k, l, m.
Jansky & Bailey, Inc., b, h, m.
Jeta, Inc., a thru e.
Johnson Electronics Inc., j.
Jordan Electronics, Div.-Victoreen Instrument Co., a, b, d, k.
Kahn & Co., Inc., b.
Kaiser Aircraft & Electronics, Div.-Kaiser Industries Corp., d, h, k.
Kay Electric Co., k.
***KEARFOTT CO., INC.**, a thru d, h, m.
Keithley Instruments, Inc., b, h, l, m.
Kinney Mfg. Div., The New York Air Brake Co., a, b, e, h, l, m.
Kin Tel Div.-Cohu Electronics, Inc., b.
Kingston Electronics-Div.-Kingston Industries Inc., b.
Lambda Electronics Corp., a, d, f, h, j thru m.
Land-Air Inc., a, b, d, e, j.
Langevin Div., The W. L. Maxson Corp., a, b, d, e, g, h, m.
Leach Corp., a, b, d, g, h, k, l, m.
Lear, Inc., a, b, d, g, h, k, m.
Lear, Inc., Grand Rapids Div., a, d.
Leeds & Northrup Co., m.
Leland Airborne Products, Div.-American Machine & Foundry Co., a thru e, g, h, l, m.
Levinthal Electronic Products, Inc., e, f, j.
Litton Industries, Maryland Div., h.
Livingston Electronic Corp., j, k.
Macarr, Inc., a, b, g, h, l.
Magnetic Controls Co., a, b, d, g, h, k, m.
Magnetic Research Corp., b, d.
Manson Labs., Inc., a, b, e, f, h, j, l, m.
Marquardt Aircraft Co., c.
Master Specialties Co., a, b, d, h, m.
W. L. Maxson Corp., The, h.
Menlo Research Lab., a.
Micrometrical Mfg. Co.
Sanford Miller Co., b, k.
Minneapolis-Honeywell Regulator Co., Boston Div., a, d, m.
Minneapolis-Honeywell Regulator Co., Industrial Product Group, h, m.
Minneapolis-Honeywell Regulator Co., Ordnance Div., a, b, d, k, m.
Miratel, Inc., b, e, h, j, l, m.
Model Rectifier Corp., b, k, l.
Moran Instrument Corp., b, e, m.
Morse Instrument Co., The, b, m.
***MOTOR GENERATOR CORP.**, a thru e.
Motoresearch Co., a thru d, h, m.
Motorola Inc., Military Electronics Div., a, b, d thru h, j thru m.
Mucon Corp., a thru h, j thru m.
Heinz Mueller Eng. Co., Inc., b.
Mullenbach Div.-Electric Machinery Mfg. Co., b.
Multi-Amp Corp., a, b, e, g, h, l, m.
Munston Mfg. & Service, Inc., a, e, j, k.
NYT Electronics, Inc., a, b, d, e, g, h, j, k, m.
George L. Nankervis Co., a, b.
National Pneumatic Co., Inc., Holtzer-Cabot Divs., a, b, j, k, m.
Navigation Computer Corp., b.
Neff Instrument Corp., b, k.
Networks Electronic Corp., b, c, d, g, h, i, k, l, m.
Neutronic Associates, b, e, h, l, m.
North Electric Co., a, b, m.
North Hills Electric Co., Inc., b, e, h, l, m.
Northeast Electronics Corp., b, e, h, k, l, m.
Northeast Scientific Corp., e, f, m.
Northrop Corp., a thru h, k, l.
Paul Nurches Co., b, h, k, l, m.
Nutron Mfg. Co. Inc., a, b, g, j, k, l.
D. W. Onan & Sons Inc., a thru d, h, m.
Orbitron Co., Inc., k, m.
Pacific Magnetic Corp., a, b, d, g, h.
***PACKARD-BELL ELECTRONICS CORP.**, b, h, m.
Ralph M. Parsons Co., The, Electronics Div., b, d, m.
Patterson, Moos Div.-Universal Winding Co., Inc., a, b.
Perkin Engrg. Corp., a thru m.
Perry Plastics, Inc., a, b, d.
Peschel Electronics, Inc., a, b, d, e, f, l.
Pesco Products Div.-Borg-Warner Corp., a, b, c.
George A. Philbrick Researches, Inc., h.
Philco Corp., Government & Industrial Div., a, b, c, e, f, h, j thru m.
Pioneer Tool & Engrg. Co., a, b, e.
Pollarad Electronics Corp., f.
Polytechnic Research & Development Co., Inc., f.
Potter Co., The, b, d, e, h, m.
Power Designs Inc., a, b, d, f, h, k, l, m.
Power Sources, Inc., a thru d, g, h, k, l, m.
Power Supplies Inc., a thru e, g, h, j thru m.
Power-Tronic Systems Inc., a, b, d, k, l, m.
Precise Development Corp., a, b, e, h, k, l, m.
Q. O. S. Corp., e, j.
Quan-Tech Labs., b, h, k, m.
RS Electronics Corp., e, j, k.
Radiaphone Co. Inc., b, h, j, k, m.
Radiation Dynamics, Inc., e.
Radiation, Inc., b.
Radiation Instrument Development Lab., Inc., a.
Ramo-Wooldridge Div., Thompson Ramo Wooldridge of Calif., a, b.
Rapid Electric Co., b, h, k, l.
Raytheon Mfg. Co., a, b, g, h, m.
Reflectone Corp., The, g, h, k, l, m.
Republic Aviation Corp., b, h, l, m.
***RHEEM MFG. CO., DEFENSE & TECHNICAL PRODUCTS DIV.**, d, j, m.
Rixon Electronics Inc., a, b, d, h, k.
Safety Electrical Equipment Corp., a thru d, h, m.
Sangamo Electric Co., a, b, d, e, h.
Schaevitz Engrg., a.
Scientific Engrg. Labs., Inc., e, l, m.
H. H. Scott, Inc., a, l.
Seco Mfg. Co., l.
Seeburg Corp., The, a, b, j, k, m.
Sel-Rex Corp., b, c, g, h, l, m.
Sequoia Wire & Cable Co.,-Div.-Mandrel Industries, Inc., a, b, h, k, l, m.
Servomechanisms, Inc.
Servomechanisms, Inc., Mechatrol Div., d.
Shallcross Mfg. Co., b.
Sherman Industrial Electronics, Div.-Engrg. Design Inc., a.
Solar Aircraft Co., b.
Sorensen & Co., Inc., a thru e, g, h, j thru m.
Southwestern Industrial Electronics Co., a thru m.
Special Instruments Div., British Industries Corp., f.
Specialty Engrg. & Electronics Co., h, m.
Spectrol Electronics Corp., a, b, d, e, h, k, m.
Sperry Microwave Electronics Co., Div.-Sperry Rand Corp., f.
State Testing Lab. Inc., a, b, h, l, m.
Stromberg-Carlson Div.-General Dynamics Corp.,
Suffolk Products Corp.

Sun Electric Corp., Aeronautical Div., a, b.
Superior Electric Co., The, a, b.
Syntron Co., b, e, h, m.
Talley Corp., The, a, b, c, g, h, l, m.
Tapco Group, Thompson-Ramo-Wooldridge Inc., a, b, c, d, j, m.
Technical Apparatus Builders, a thru m.
Telectro Industries Corp., a thru e, g, h, j thru m.
Tele-Dynamics Inc., k.
Telerad Mfg. Corp., f.
Tel-Instrument Electronics Corp., a, b, d, e, h, m.
Torwico Electronics, Inc., b, g, h, m.
Trans Electronics, Inc., a, b, d, e, h, k, l, m.
Transdyne Corp., a, b, d, h, l, m.
Turbo Machine Co., a, b, h, m.
United Electrodynamics, Inc., a, b, d, h, j, k, m.
U. S. Industries, Inc., a, b, m.
U. S. Science Corp., Div.-Topp Industries, Inc., a, b, d, g, h, j thru m.
Universal Electronics Co., b, d, e, g, h, k, l, m.
Varian Associates, b, d, e, f, h, j, l, m.
Varo Mfg. Co., Inc., a, b, d, e, h, k, m.
Video Instruments Co., Inc., b, d, h, k, l, m.
Virginia Electronics Co., Inc.
Waldorf Electronics. Div.-F. C. Huyck & Sons, k.
Western Design, Div.-U. S. Industries, Inc.; Santa Barbara Div., a, b, d.
Western Gear Corp., a thru e, k, l, m.
Westinghouse Electric Corp., a, b.
Wheeler Electronic Corp., Sub.-Sperry Rand Corp., a, b, d, k.
***WHITE DIESEL ENGINE DIV., THE WHITE MOTOR CO., a thru e, m.**
Wincharger Corp., Sub.-Zenith Radio Corp., a thru d, k.

POWER SYSTEMS, ELECTRIC
See ELECTRIC POWER SYSTEMS

POWER UNITS, RECTIFIER
See RECTIFIER POWER UNITS

PRECIOUS METAL PLATING
See PLATING, PRECIOUS METAL

PRECIPITATORS, ELECTROSTATIC

Air-Maze Corp.
Bendix Utica Div., Bendix Aviation Corp.
Dayton Aircraft Products, Inc.
Koppers Co., Inc.
Merix Chemical Co.
Radex Corp.
Trion, Inc.
Westinghouse Electric Corp.

PRECISION APPROACH RADAR
See RADAR, PRECISION APPROACH

PRECISION DRILL PRESSES
See DRILL PRESSES, PRECISION

PRECISION GEARS
See GEARS, PRECISION

PRE-SELECTORS

Barker Sales Co.
Bendix Aviation Corp., York Div.
Electronic Communications, Inc.
ITT Federal Div., International Telephone & Telegraph Corp.
Meridian Metalcraft, Inc.
Motorola Inc., Military Electronics Div.
Telerad Mfg. Corp.

PRESET PANELS LIGHTING EQUIPMENT
See LIGHTING EQUIPMENT, PRESET PANELS

PRESS FORGINGS
See FORGINGS, PRESS

PRESSES, METAL FORMING

American Brake Shoe Co.
E. W. Bliss Co.
Chambersburg Engrg. Co.
Cincinnati Shaper Co., The
Farrel Birmingham Co. Inc.
Hannifin Co., Div.-Parker-Hannifin Corp.
Hufford Corp., The
Hydraulic Press Mfg. Co., The, Div.-Koehring Co.
Kenco Mfg. Co.
E. Konigslow Stamping & Tool Co.
Montgomery Engrg., Co.
Oliver Corp., The
Oliver Corp., The-A. B. Farquhar Div.
O'Neil-Irwin Mfg. Co.
Rotex Punch Co., Inc.
Rucker Co., The
Transmares Corp.
United States Chemical Milling Corp.
Verson Allsteel Press Co.
Wales Strippit Inc., Unit of Houdaille Industries, Inc.
Wasley Products, Inc.

PRESSES, PUNCH
See PUNCH PRESSES

PRESSURE INSTRUMENTS

Aerotec Corp., The
***AIRESEARCH MFG. CO., DIV.-THE GARRETT CORP.**
Bendix Aviation Corp., Friez Instrument Div.
Bristol Co., The
Captive Seal Corp.
Colvin Labs., Inc.
Consolidated Controls Corp.
Consolidated Diesel Electric Corp.
Consolidated Electrodynamics Corp.
Curtiss-Wright Electronics Div., IMI Branch
Dynametrics Corp.
Electro-Mechanical Research, Inc.
Fairchild Controls Corp., Components Div.
Fischer & Porter Co.
Fisher Governor Co.
General Design
Glassco Instrument Co.
Hagan Chemicals & Controls, Inc.
Industrial Engrg. Corp.
Kahn & Co., Inc.
Lear, Inc., Grand Rapids Div.
***WALLACE O. LEONARD, INC.**
Mason-Neilan
Matheson Co., Inc., The
Meriam Instrument Co.
Minneapolis-Honeywell Regulator Co., Industrial Div.
Minneapolis-Honeywell Regulator Co., Industrial Product Group
Rochester Mfg. Co. Inc.
Sanborn Co.
Scientific Instrument Co.
Servomechanisms, Inc.
Statham Instruments, Inc.
A. U. Stone & Co., Inc.
Technology Instrument Corp.
Trans-Sonics, Inc.
Trimount Instrument Co.
Ultradyne, Inc.
United Electric Controls Co.
Wallace & Tiernan Inc.
Weksler Instruments Corp.
Wilks Precision Instrument Co., Inc.

PRESSURE MEASURING EQUIPMENT
See MEASURING EQUIPMENT, PRESSURE

PRESSURE RELIEF DEVICES–COLUMN FAILURE

***ANDERSON, GREENWOOD & CO.**

PRESSURIZATION UNITS

Accessory Products Co., Div.-Textron Inc.
***AIRESEARCH MFG. CO. OF ARIZ.**
***AIRESEARCH MFG. CO., DIV.-THE GARRETT CORP.**
Aro Equipment Corp.
Associated Engineers, Inc.
Bar-Ray Products, Inc.
Bendix Utica Div., Bendix Aviation Corp.
Consolidated Diesel Electric Corp., Test Equip. Div.
Cornelius Co., The, Aero Div.
Desomatic Products, Inc.
Hydromatics, Inc.
Kahn & Co., Inc.
Lear, Inc.
***McCORMICK SELPH ASSOCIATES**
N. R. K. Mfg. & Engrg. Co.

PRESSURIZED CONNECTORS
See CONNECTORS, PRESSURIZED

PRINTED CIRCUIT COPPER LAMINATES
See COPPER LAMINATES, PRINTED CIRCUIT

PRINTED CIRCUIT SHEETS, METAL CLAD
See SHEETS, METAL CLAD, PRINTED CIRCUIT

PRINTED CIRCUIT SOLDERING EQUIPMENT
See SOLDERING EQUIPMENT, PRINTED CIRCUIT

PRINTED CIRCUITS

***AC ELECTRONICS DIV., GENERAL MOTORS CORP.**
ACF Industries Inc.
Adept Industries Inc.
Aerolite Electronics Corp.
Amelco, Inc.
American Printed Circuits Co., Inc.
Arthur Ansley Mfg. Co.
Bendix Aviation Corp., York Div.
Brown Engrg. Co., Inc.
Cleveland Metal Specialties Co., Electronics Div.
Corning Glass Works
Croname Inc.
Dale Products, Inc.
Dalmotor Div., Yuba Consolidated Industries, Inc.
Dorsett Labs., Inc.
Eaton Electronics Corp.
Electralab Inc.
Emerson Electric Mfg. Co., The, Electronics & Avionics Div.
Gladding, McBean & Co.
Globe Electrical Mfg. Co.
Good Electronic Corp.
B. F. Goodrich Aviation Products
ITT Federal Div., International Telephone & Telegraph Corp.
Integrated Mica Corp.
ITT-Kellogg
Keil Engrg. Products
Lamtex Industries, Inc.
Land-Air Inc.
La Pointe Industries Inc.
Litton Industries, U. S. Engrg. Co., Div.
Motorola Inc., Military Electronics Div.
Panel Engrg. Corp.
Philco Corp., Government & Industrial Div.
Precise Development Corp.
Printronics Corp.
Ravenna Metal Products, Div.-Standard Screw Co.
Rogers Corp.
Milton Ross Metals Co., The
St. Regis Paper Co., Panelyte Div.
D. A. Schultz Co.
Stanley Aviation Corp.
Stromberg-Carlson Div.-General Dynamics Corp.
Technograph Printed Electronics, Inc.
Unison Products, Inc.
United Aircraft Products, Inc.
United States Chemical Milling Corp.
Webcor, Inc., Government Div.
Westinghouse Electric Corp.
Zenith Optical Laboratory

PRINTED, STAMPED, ETCHED CIRCUITS
See CIRCUITS, PRINTED, STAMPED, ETCHED

PROBES

a. Crystal
b. High Frequency
c. High Voltage
d. Measurement
e. Microwave
f. Pitot Static
g. Pressure
h. Temperature

Advanced Electronics, Inc., g, h.
Aero Research Instrument Co. Inc., f, g, h.
Ainslie Corp., e.
Air Logistics Corp., h.
Aircom Inc., a, e.
Aircom Inc. of New Jersey, e.
Airtron Inc., Div.-Litton Industries, e.
Allegany Instrument Co., Inc., h.
Allen Tool Corp.
***ARNOUX CORP., h.**
Atlantic Instrument Corp., Sub.-American Electronics, Inc., h.
Bendix Aviation Corp., York Div., e.
Bogart Mfg. Corp., e.
Branson Instruments, Inc., a.
Budd Stanley Co. Inc., e.
Bulow Electric Co., h.
Cardinal Instrumentation Corp., h.
Chesapeake Instrument Corp., a.
Christie Machine Works, b, d.
Consolidated Controls Corp., h.
Consolidated Diesel Electric Corp., f, g, h.
Crescent Engrg. & Research Co., h.
Demornay-Bonardi, e.
Diamond Antenna & Microwave Corp., a, e.
Douglas Microwave Co., Inc., e.
E-Z-Hook Test Products
Edcliff Instruments, f, g.
Electro-Mechanical Products Co., h.
Electronic Instrument Co., Inc. (EICO), a, b, c.
FXR, Inc., a, b, d, e.
Fenwal Electronics, Inc., h.
Fenwal Inc., h.
Ferrotherm Co., The, g, h.
Flow Corp., f, g, h.
General Electric Co., Apparatus Sales Div., h.
G. M. Giannini & Co., Inc., d, f, g, h.
John Gombos Co., Inc., e.
Claud S. Gordon Co., g.
Harco Labs., Inc., f, g, h.
Hesco Engrg., h.
Hewlett-Packard Co., b, d, e.
Holex, Inc., d.
Illinois Testing Laboratories, Inc., h.
Industrial Television Inc., a.
International Resistance Co., e.
Interstate Engrg. Corp., g, h.
Javex Electronics, c.
Kay Electric Co., b.
***KEARFOTT CO., INC., e.**
Keithley Instruments, Inc., d.
Keystone Electronics Corp., c.
Leeds & Northrup Co., h.
***LEWIS ENGRG. CO., THE, h.**
Magnaflux Corp., a, d.
Marconi Instruments, b, d.
Measurements Div., McGraw Edison Co., b, d.
Microlab, b, e.
Munston Mfg. & Service, Inc., b.
Narda Microwave Corp., The, e.
National Beryllia Corp., h.
Omega Labs., Inc., e.
Pacific Scientific Co., h.
Paco Electronics Co., Inc., a, b, c.
Pioneer Industries Div., Almar-York Co. Inc., a.
Polytechnic Research & Development Co., Inc., e.
Precision Apparatus Co., Inc., a, b, c.
Projects Unlimited Inc.
Radar Design Corp., e.
Rosemount Engrg. Co., g, h.
Arthur C. Ruge Associates, Inc., h.
Sage Labs., Inc., e.
Sanford Plastics Corp., b, c.
Scaico Controls, Inc., h.
Scala Radio Co., a, b, c.
Servomechanisms, Inc., f, g.
Sheffield Corp., The, Sub.-Bendix Aviation Corp., d.
Simpson Electric Co., a, b, c, h.
Sperry Microwave Electronics Co., Div.-Sperry Rand Corp., e.
T-C Div., Dyna-Empire, Inc., h.
Telerad Mfg. Corp., e.
Temperature Engrg. Corp., h.
Thermal Refractories Corp., g, h.
Thermo Electric Co., Inc., h.
Turbo Machine Co., e.

United Control Corp., h.
U. S. Science Corp., Div.-Topp Industries, Inc., g, h.
Victor R. F. & Microwave Co., a, e.
Victory Engrg. Corp., h.
Waste King Corp., Technical Products Div., f, g, h.
Waterman Products Co., Inc., a, d.
Waveline, Inc., e.
Webcor, Inc., Government Div.
Wintronics, c.
Yellow Springs Instrument Co., The, h.

PROCESSING EQUIPMENT, MOTION PICTURE

Bell & Howell Co.
Belock Instrument Corp.
Camera Mart Inc., The
Eastman Kodak Co.
Edgerton, Germeshausen & Grier, Inc.
Gordon Enterprises
Hi-Speed Equipment, Inc.
Houston Fearless Corp.
Hufford Corp., The

PROJECTION LAMPS
See **LAMPS, PROJECTION**

PROPELLANT CASES, SOLID ROCKET

Aerojet-General Corp.
Alco Products, Inc.
Aluminum Co. of America
American Aluminum Co.
American Car & Foundry, Div.-ACF Industries, Inc.
American Machine & Foundry Co., Government Products Group
Anchor Metal Spinning Co., The
Astrodyne, Inc.
Atlantic Research Corp.
Baker Perkins Inc.
Bell Aircraft Corp., Niagara Frontier Div.
***BENDIX PRODUCTS DIV., BENDIX AVIATION CORP.**
Benson Mfg., Co., The
E. W. Bliss Co.
Bridgeport Brass Co.
***CAMERON IRON WORKS, INC.**
Champion Co., The
Chrysler Corp., Defense Operations Div.
Cooper Development Corp., Sub.-Marquardt Aircraft Co.
Curtiss-Wright Corp.-Propeller Div.
Curtiss-Wright Corp.-Utica Div.
Curtiss-Wright Corp.-Wright Aeronautical Div.
Diversey Engrg. Co.
Dresser Mfg. Div., Dresser Industries, Inc.
Dunbar-Kapple Inc.-Aircraft Components Div.
Dynamic Devices, Inc.
B. F. Goodrich Aviation Products
Goodyear Aircraft Corp.
Hahn & Clay
Haveg Industries, Inc.
Hufford Corp., The
Ingersoll Kalamazoo Div., Borg-Warner Corp.
Intercontinental Mfg. Co., Inc.
Kaiser Metal Products, Inc.-Fleetwings Div.
Kanarr Corp.
M. W. Kellogg Co., The
Kelsey-Hayes Co.
Lamtex Industries, Inc.
***LYCOMING DIV., AVCO MFG. CORP.**
Merz Engrg., Inc.
Minnesota Mining & Mfg. Co.
Newbrook Machine Corp.
Norris-Thermador Corp.
Northrop Corp., The, Nortronics Div.
Nuclear Products-Erco Div.-ACF Industries, Inc.
Plastic Age Sales, Inc.
Portland Copper & Tank Works Inc.
Precision Sheet Metal, Inc.
Pressed Steel Tank Co.
Red Lion Cabinet Co., Redco Tool Div.
Reinhold Engrg. & Plastics Co.
***RHEEM MFG. CO., DEFENSE & TECHNICAL PRODUCTS DIV.**
Rohr Aircraft Corp.
Ryan Aeronautical Co.
Sanford Plastics Corp.
A. O. Smith Corp.
Solar Aircraft Co.
Stainless Steel Products, Inc.
Strong Scott Mfg. Co., The
Tapco Group, Thompson-Ramo-Wooldridge Inc.
Topper Mfg. Co., Inc.
Twigg Industries
United States Chemical Milling Corp.
United States Rubber Co.
Universal Moulded Products Corp.
Waste King Corp., Technical Products Div.
Western Arc Welding, Inc.
Wilks Precision Instrument Co., Inc.
Yardley Plastics Co.
Young Development Div., Hercules Powder Co.

PROPELLANT CHEMICALS, NITRATED

***PROPELLEX CHEMICAL DIV., CHROMALLOY CORP.**

PROPELLANT TANKS

Aerojet-General Corp.
Air Products, Inc.
Alco Products, Inc.
Aluminum Co. of America
American Aluminum Co.
American Machine & Foundry Co., Government Products Group
Anchor Metal Spinning Co., The
Bell Aircraft Corp., Niagara Frontier Div.
Benson Mfg., Co., The
Bowser, Inc., Defense Dept.
Cambridge Co.-Div.-Carrier Corp.
Champion Co., The
Chemplast, Inc.
Chrysler Corp., Defense Operations Div.
Cooper Development Corp., Sub.-Marquardt Aircraft Co.
Cromer Mfg. & Engrg., Inc.
Curtiss-Wright Corp.-Propeller Div.
Curtiss-Wright Corp.-Wright Aeronautical Div.
Diversey Engrg. Co.
Doyle & Roth Mfg. Co., Inc.
Dresser Mfg. Div., Dresser Industries, Inc.
Hahn & Clay
Paul Hardeman, Inc.
Hufford Corp., The
Ingersoll Kalamazoo Div., Borg-Warner Corp.
Joclin Mfg. Co.
Kaiser Metal Products, Inc.-Fleetwings Div.
M. W. Kellogg Co., The
Lamtex Industries, Inc.
Mercury Tool & Mfg. Corp.
Minnesota Mining & Mfg. Co.
***MIRAX CHEMICAL PRODUCTS CORP., METAL CONTAINER DIV.**
Newbrook Machine Corp.
Nuclear Products-Erco Div.-ACF Industries, Inc.
Opelika Welding, Machine & Supply Inc.
Portland Copper & Tank Works Inc.
Precision Sheet Metal, Inc.
Pressed Steel Tank Co.
Project Fabrication Corp.
Reaction Motors Div., Thiokol Chem. Corp.
Edw. Renneburg & Sons Co.
***RHEEM MFG. CO., DEFENSE & TECHNICAL PRODUCTS DIV.**
Rohr Aircraft Corp.
Ryan Aeronautical Co.
Santa Anita Engrg. Co.
Scaife Co.-Div.-Wilson Bros.
A. O. Smith Corp.
Solar Aircraft Co.
Stainless Steel Products, Inc.
Sterns-Roger Mfg. Co.
Tapco Group, Thompson-Ramo-Wooldridge Inc.
Twigg Industries
U. S. Industries, Inc.
United States Chemical Milling Corp.
Universal Moulded Products Corp.
Young Development Div., Hercules Powder Co.

PROPELLANTS, LIQUID ROCKET

Aerojet-General Corp.
Air Products, Inc.
***ALLIED CHEMICAL CORP., GENERAL CHEMICAL DIV.**
Allied Chemical Corp., Nitrogen Div.
American Rocket Co.
Becco Chemical Div.-Food Machinery & Chemical Corp.
Bell Aircraft Corp., Niagara Frontier Div.
Callery Chemical Co.
Escambia Chemical Corp.
Fulton-Irgon Corp., The
Hercules Powder Co.
Kaiser Metal Products, Inc.-Fleetwings Div.
Olin Mathieson Chemical Corp., Energy Div.
Pennsalt Chemicals Corp.
***REDEL INC.**
Rohm & Haas Co., Redstone Arsenal Research Div.
Shell Chemical Corp., Industrial Chemical Div.
Special Projects Lab., Food Machinery & Chemical Corp.

PROPELLANTS, SOLID ROCKET

Aerojet-General Corp.
American Latex Products Corp.
***AMERICAN POTASH & CHEMICAL CORP.**
American Rocket Co.
Amoco Chemicals Corp.
Astrodyne, Inc.
Atlantic Research Corp.
Callery Chemical Co.
Cooper Development Corp., Sub.-Marquardt Aircraft Co.
Dynamic Devices, Inc.
Escambia Chemical Corp.
Foote Mineral Co.
Fulton-Irgon Corp., The
B. F. Goodrich Aviation Products
Hercules Powder Co.
Kaiser Metal Products, Inc.-Fleetwings Div.
Oerlikon Tool & Arms Corp. of America
Olin Mathieson Chemical Corp., Energy Div.
Pennsalt Chemicals Corp.
***REDEL INC.**
Rohm & Haas Co., Redstone Arsenal Research Div.
Shell Chemical Corp., Industrial Chemicals Div.
Standard Oil Co. of Indiana
Topper Mfg. Co., Inc.
United States Rubber Co.

PROPULSION SYSTEMS

Accessory Products Co., Div.-Textron Inc.
Aerojet-General Corp.
Aerolab Development Co.
Aeroscience, Inc.
Astrodyne, Inc.
Atlantic Research Corp.
Bell Aircraft Corp., Niagara Frontier Div.
Christie Machine Works
Curtiss-Wright Corp., Research Div.
Curtiss-Wright Corp., Santa Barbara Div.
Curtiss-Wright Corp., Wright Aeronautical Div.
Dynamic Devices, Inc.
Fulton-Irgon Corp., The
B. F. Goodrich Aviation Products
Hercules Powder Co.
Marquardt Aircraft Co.
***McMORMICK SELPH ASSOCIATES**
Pneu-Hydro Valve Corp.
Reaction Motors Div., Thiokol Chem. Corp.
***REDEL INC.**
Rocketdyne Div.-North American Aviation, Inc.
Ryan Aeronautical Co.
Special Projects Lab., Food Machinery & Chemical Corp.
Strong Scott Mfg. Co., The
Tapco Group, Thompson-Ramo-Wooldridge Inc.
Thiokol Chemical Corp.

PROTECTIVE SEALERS
See **SEALERS, PROTECTIVE**

PSYCHOGALVANOMETERS

Associated Research, Inc.
Electro-Medical Lab., Inc.
Offner Electronics Inc.

PSYCHROMETERS

Bendix Aviation Corp., Friez Instrument Div.
Bristol Co., The
Fisher Scientific Co.
General Scientific Equipment Co.
E. Vernon Hill & Co.
Minneapolis-Honeywell Regulator Co., Industrial Div.
Minneapolis-Honeywell Regulator Co., Industrial Product Group
Palmer Thermometers, Inc.
Precision Thermometer & Instrument Co.
Scientific Instrument Co.
Specialty Engrg. & Electronics Co.
Universal Dynamics Corp.
Weksler Instruments Corp.

PUBLIC ADDRESS SYSTEMS

Bliss Electronic Corp.
Blonder-Tongue Labs., Inc.
Budelman Electronics Corp.
Dorsett Labs., Inc.
Dresser Mfg. Div., Dresser Industries, Inc.
Du Kane Corp.
Executone, Inc.
ITT-Kellogg
Precise Development Corp.
Stromberg-Carlson Div.-General Dynamics Corp.
Telectro Industries Corp.

PULSATION CONTROL

Consolidated Controls Corp.
Consolidated Diesel Electric Corp.

PULSATION DAMPERS
See **DAMPERS, PULSATION**

PULSE MODULATORS
See **MODULATORS, PULSE**

PUMP SYSTEMS, FLUID METERING
See **FLUID METERING PUMP SYSTEMS**

PUMPS

a. Air
b. Alcohol
c. Booster
d. Combination Air & Hydraulic
e. Fuel
f. Hydraulic, Fixed Displacement
g. Hydrogen Peroxide
h. Liquid Nitrogen
i. Liquid Oxygen
j. Metering
k. Oil
l. Oxygen Transfer
m. Pneumatic
n. Speed Density Metering
o. Transfer
p. Turbine
q. Vacuum
r. Water Injection
s. Wobble

ACF Industries Inc., a, b, e, k, m, q, r.
Adel Precision Products of California, Div.-General Metals Corp., b, c, e, f, k, o, p, r, s.
Aerojet-General Corp., g, h, i, k, p.
Air Products, Inc., a, h, i, l, s.
***AIRESEARCH MFG. CO., DIV.-THE GARRETT CORP.**, c thru f, h, i, o, p, r.
American Aeroparts, a, b, c, e, f, j, q, s.
American Bosch Arma Corp., e, j.
American Brake Shoe Co., f.
American Brake Shoe Co., Kellogg Div., f.
American Felt Co., a, c, d, g, l.
American Instrument Co., Inc., m.
American Machine & Foundry Co., Greenwich, f.
Applied Dynamics Corp., a, d, f.
Aro Equipment Corp., q.

Associate Aircraft Tool & Mfg., Inc., a, c thru f, j, m, q.
Associated Engrg. & Mfg. Corp., q.
Associated Engineers, Inc., b, c, e, f, k, o.
***BALCRANK INC., MACHINE TOOL DIV.**, b, g, k, o.
Beach-Russ Co., a, c, q.
Bell Aircraft Corp., Niagara Frontier Div., c, p.
Bell & Gossett Co., Marlow Pumps Div., b, c, k, o.
***BENDIX AVIATION CORP., HAMILTON DIV.**, f, g, j, k, n, o.
Bendix-Pacific Div., Bendix Aviation Corp., f.
Bendix Utica Div., Bendix Aviation Corp., a, b, c, e, f, g, j, k, m, p, q, r.
Blackhawk Mfg. Co., f.
Blackmer Pump Co., b, e, g, k, o.
Bowser, Inc., Defense Dept., e, h, i.
Byron-Jackson Pumps Inc., Sub.-Borg-Warner Corp., b, c, e, g thru m, o, p, r.
Cambridge Co.-Div.-Carrier Corp., h, i, l.
J. C. Carter Co., The, b, c, e, g, h, i, l, o, p, r.
Central Scientific Co., q.
Chandler Evans Corp., e, h, j, n, o, p, r.
Chempump Corp., b, c, e, g, h, i, l, o.
Chicago Pneumatic Tool Co., q.
Christie Machine Works, e, i, p.
Clark Equipment Co., f.
Collins Engrg. Corp., i, r.
Com-Air Products, Div.-A S R Products Corp., e, f, s.
Commercial Shearing & Stamping Co., f.
Components Corp., a, b, d, e, g thru k, m, o, q.
Consolidated Electrodynamics Corp., Rochester Div., q.
Cornelius Co., The, Aero Div., a, d, f, m, q.
Croll-Reynolds Co. Inc., q.
Curtiss-Wright Corp., Santa Barbara Div., a thru f, p, r.
Dean & Benson Research, Inc., a.
Deming Co., The, b, c, f, k, o, p, s.
Denison Engrg. Div., American Brake Shoe Co., f, j, k.
Dresser Industries, Inc., a, b, d thru i, k, l, m, p.
Dumont Aircraft Fitting Co., g, h, i.
Dynamic Filters Inc., c.
Eastern Industries Inc., a thru g, j, k, o thru r.
Eco Engrg. Co., b, f, g, j.
Electronic Communications, Inc., e, o.
Finnell System, Inc., q.
Fischer & Porter Co., j.
Fisher Scientific Co., a, q.
Gardner-Denver Co., a, d, f, m, q.
Gardner Laboratory, Inc., a, q.
General Electric Co., Apparatus Sales Div., c, e, p.
Gorman-Rupp Co., The, a.
Goulds Pumps Inc., b, c, e, g, h, i, k, o, r.
Gray Co., Inc., b, k, m, o.
Green Rectifier Co., q.
Hamilton Standard, Div.-United Aircraft Corp., f, k.
Hardman Tool & Engrg., Co., d, o.
Haskel Engrg. & Supply Co., c, d, f, k, m.
High Vacuum Equipment Corp., q.
Hills-McCanna Co., j.
Hofman Labs., Inc., h, i, l.
Hoof Products Co., e, f.
Hoover Electric Co., a thru l, k, o, p, r.
Hull Corp., q.
Hupp Aviation Co., f, o.
Hydraulic Press Mfg. Co., The, Div.-Koehring Co., f.
***HYDRO-AIRE CO., DIV.-CRANE CO.**, a thru l, p, q.
Hydrodyne Corp., Skinner Seal Div., e, g, h, i, p.
Hydromatics, Inc., b, g, h, i.
International Pump & Machine Works, q.
Joy Mfg. Co., q.
Kinney Mfg. Div., The New York Air Brake Co., c, j, o, q.
Korda Industries, e, f, j, k, n.
Harold Kruger Instruments, j.
Lawrence Pumps Inc., b, g, h, i, l.
Lear, Inc., a, b, c, e thru i, k, m, o, q, r, s.
Lear, Inc., Grand Rapids Div., a, c thru f, j, k, o, q, r.
Lear Inc., Lear-Romec Div., a thru s.
Ledeen Inc., c, d.
Leiman Brothers, Inc., a, c, q.
Linde Co., Div-Union Carbide Corp., h, i, l, o, p.
Litton Engrg. Labs., q.
M. C. Mfg. Co., e.
Marquardt Aircraft Co., e, r.
J. J. Monaghan Co., Inc., a.
NRC Equipment Corp., q.
Nash Engrg. Co., The, a thru e, g, h, i, l, o, q.
National Airoil Burner Co., k, o.
National Research Corp., q.
Natl. Water Lift Co., Div.-Cleveland Pneumatic Industries, Inc., e, f.
Nelson Vacuum Pump Co., q.
Newton Hydraulic Tooling Co., f.
W. H. Nichols Co., f, j, k, o.
Northern Ordnance Inc., Sub.-Northern Pump Co., e, f, k, o.
Oil-Dyne, Inc., f.
Oliver Corp., The, f.
Owatonna Tool Co., f.
Oxygen Equipment & Service Co., q.
Peerless Pump Div., Food Machinery & Chemical Corp., b, e, g, i.
Penberthy Mfg. Co., q, r.
Pennsylvania Pump & Compressor Co., q.
Pesco Products Div.-Borg-Warner Corp., a thru g, i, k, p, q, r.
H. K. Porter Co., Inc., f.
Project Fabrication Corp., h, i, l, o.
Pyles Industries, Inc., d.
Quincy Compressor Co., q.
Racine Hydraulics & Machinery Inc., f.
Reaction Motors Div., Thiokol Chem. Corp., i, o, p.
Red Point Corp., q.
Republic Mfg. Co., f, j, k, s.
Research Appliance Co., a, b, f, j, k.
Rocketdyne Div.-North American Aviation, Inc., e, i.
Milton Roy Co., j.
Rucker Co., The, c.
Sargent Engrg. Corp., f.
Schutte & Koerting Co., q.
Scientific Engrg. Labs., Inc., q.
Sier-Bath Gear & Pump Co., Inc., e, k, o.
Sigmamotor, Inc., j.
Solar Aircraft Co., f, p.
Southwestern Industries, Inc., a, b, c, e, g, h, i, k, o, r.
Special Projects Lab., Food Machinery & Chemical Corp., g.
F. J. Stokes Corp., q.
Stratos, Div.-Fairchild Engine & Airplane Corp., a, d, e, f, h, i, j, m.
Superior Air Products Co., h, i, l, o.
Tapco Group, Thompson-Ramo-Wooldridge Inc., a thru l, m, o, p, r.
Task Corp., a, b.
Temperature Engrg. Corp., q.
Thermech Engrg. Corp., h, i.
Turbo Products, Inc., p.
United Aircraft Products, Inc., s.
United Supply Co., a, b.
Varian Associates, q.
Veeco Vacuum Corp., q.
Vickers Inc., Div.-Sperry Rand, c, e, f.
Vickers Inc., Marine & Ordnance Dept., Machinery Hydraulics Div., f.
Waldorf Fluid Systems, Div.-F. C. Huyck & Sons, a, b, k, m.
Wallace & Tiernan Inc., j.
Watertown Div., The New York Air Brake Co., f.
Wayne Pump Co., The, Div.-Symington Wayne Corp.
Whittaker Controls, Div.-Telecomputing Corp., b, e, k, o.
Wilks Precision Instrument Co., Inc., b, c, k, o, r.

PUMPS, TURBO
See TURBO PUMPS

PUNCH PRESSES

Acromark Co., The
E. W. Bliss Co.
Clover Industries, Inc.
Denison Engrg. Div., American Brake Shoe Co.
Montgomery Engrg., Co.
Oliver Corp., The
Oliver Corp., The-A. B. Farquhar Div.
O'Neil-Irwin Mfg. Co.
Papesch & Kolstad, Inc.
Rotex Punch Co., Inc.
Joseph T. Ryerson & Son, Inc.
U. S. Industries, Inc.
Verson Allsteel Press Co.
Wales Strippit Inc., Unit of Houdaille Industries, Inc.

PUNCHES

Acromark Co., The
Bergen Carbide Co.
Hughes Tool Co., Aircraft Div.
O'Neil-Irwin Mfg. Co.
Joseph T. Ryerson & Son, Inc.
Tally Register Corp.
Torrington Co., The
Wales Strippit Inc., Unit of Houdaille Industries, Inc.
Wilks Precision Instrument Co., Inc.
J. H. Williams & Co.

PYROMETERS, OPTICAL

Cooper Development Corp., Sub.-Marquardt Aircraft Co.
Electro-Tech Equipment Co.
Epic, Inc.
Fisher Scientific Co.
Claud S. Gordon Co.
Leeds & Northrup Co.
Pyrometer Instrument Co., Inc.
Thwing-Albert Instrument Co.

PYROMETERS, RADIATION

Aetna Electronics Corp.
Bristol Co., The
Electro-Tech Equipment Co.
Epic, Inc.
Leeds & Northrup Co.
Minneapolis-Honeywell Regulator Co., Industrial Div.
Minneapolis-Honeywell Regulator Co., Industrial Product Group
Perkin-Elmer Corp.
Pyrometer Instrument Co., Inc.
Servo Corp. of America

PYROMETERS, RESISTANCE

Aero Research Instrument Co. Inc.
B & H Instrument Co., Inc.
Bristol Co., The
Electro-Tech Equipment Co.
Epic, Inc.
General Electric Co., Apparatus Sales Div.
Claud S. Gordon Co.
Illinois Testing Laboratories, Inc.
Leeds & Northrup Co.
***LEWIS ENGRG. CO., THE**
Minneapolis-Honeywell Regulator Co., Industrial Div.
Minneapolis-Honeywell Regulator Co., Industrial Product Group
Arthur C. Ruge Associates, Inc.
T-C Div., Dyna-Empire, Inc.
Thermo Electric Co., Inc.
Thwing-Albert Instrument Co.
West Instrument Corp.

PYROTECHNIC DEVICES

***AMERICAN POTASH & CHEMICAL CORP.**

RACKS

a. Cabinet
b. Disc Storage
c. Equipment
d. Mounting & Relay

A & P Metal Products Mfg. Corp., a.
Abalon Precision Mfg. Corp., a, d.
Alden Products Co., a, d.
Alpitec, Inc., a thru d.
Amelco, Inc., a, d.
American Aeroparts, a, b.
American Aluminum Co., a thru d.
American Machine & Foundry Co., Government Products Group, a, b, c.
American Machine & Foundry Co., Greenwich, a, d.
Anchor Metal Spinning Co., The, a thru d.
Anchor Specialty Mfg. Co. Inc., a, c, d.
Atkins & Merrill, Inc., a.
Automatic Electric Sales Corp., d.
Barrett-Christie Co., a, c.
Barry Controls Inc., c, d.
Basco Metal Products, Inc., a.
Benson Mfg., Co., The, a.
Brooks & Perkins, Inc., a.
Bud Radio Inc., a, d.
Buffalo Metal Container Corp., a, b, c.
Butler Mfg. Co.
Byrne Doors Inc., b, c, d.
Carmody Corp., a, c.
Albert H. Cayne Equipment Corp., a, c.
Centronix Inc., d.
Champion Co., The, a, b.
Chrysler Corp., Defense Operations Div., a, d.
Colonial Aircraft Corp., a thru d.
Conco Engrg. Works, d.
Cooper Industries, Inc., a, c.
Craig Systems, Inc., c, d.
Cutler Metal Products Co., a thru d.
Dahlstrom Metallic Door Co., a.
Detronic Industries, a, d.
Devco Engrg. Inc., c, d.
Du Kane Corp., c, d.
Electro-Mechanical Products Co., a, d.
Electronic Engrg. Co. of California, d.
Elzee Metal Products Co., Inc., a thru d.
***ETS-HOKIN & GALVAN**, d.
Falstrom Co., a, c.
Farwell Metal Fabricating, a, c, d.
Ferris-Mfg. Co., The, a, b.
Frick Gallagher Mfg. Co., The, c.
Heiland Div.-Minneapolis-Honeywell, d.
Ludwig Honold Mfg. Co., a thru d.
Instrument Corp. of Fla., c.
Intercontinental Dynamics Corp., c.
ITT-Kellogg, c, d.
Kaiser Aircraft & Electronics, Div.-Kaiser Industries Corp., a thru d.
Kirk & Blum Mfg. Co., The, a, d.
Lofstrand Co., The, b, c.
R. H. Lynch Mfg. Co., a, d.
Lynch Carrier Systems Inc., d.
Mercury Tool & Mfg. Corp., a, b, c.
Metal Fabricators Corp., a.
Mid-West Metal Products, Inc., a thru d.
***MIRAX CHEMICAL PRODUCTS CORP., METAL CONTAINER DIV.**, a, c, d.
Monogram Precision Industries, a thru d.
National Pneumatic Co., Inc., Holtzer-Cabot Divs., a, c, d.
Neumade Products Corp., a, b.
North Electric Co., d.
Northeastern Engrg. Inc., a, c, d.
Pic Design Corp., Sub.-Benrus Watch Co., Inc.
Pneumafil Corp., a thru d.
Precision Sheet Metal, Inc., a.
Premier Metal Products Co., a, b, c, d.
Prereg Mfg. Inc., d.
Radiatronics, Inc., a, d.
Railway Communications Inc., d.
Red Lion Cabinet Co., Redco Tool Div., a.
Reinhold Engrg. & Plastics Co., a.
Edw. Renneburg & Sons Co., a thru d.
Republic Steel Corp., a.
Rimak, Inc., a, c, d.
Roberts Industries Inc., a, b, c.
Roll Formed Products Co., a.
Santa Anita Engrg Co., a.
Sequoia Wire & Cable Co.-Div.-Mandrel Industries, Inc., a thru d.
Skyline Electric & Mfg. Co., a thru d.
Skyline Products, Inc., a.
Specialty Engrg. & Electronics Co., a.
Stanley Avigtion Corp., d.
Stromberg-Carlson Div.-General Dynamics Corp., d.
Teiner Engrg. Corp., a, d.
Twin Coach Co., Aircraft-Missiles, a thru d.
United Aircraft Products, Inc., a, c.

U. S. Relay Co., d.
Van Zelm Associates, Inc., d.
Variety Aircraft Corp., c, d.
Welded Construction Inc., c.
Wenzlau Engrg. Co., a.
Albert Wesling & Sons Inc., c.
Winder Aircraft Corp. of Florida, c, d.
Wyco Metal Products, a, c, d.
Young & Rioux Woodworking Co., Inc., a.

RADAR, AIRBORNE

ACF Industries Inc.
Atlas Precision Products, Co.
***AVCO MFG. CORP., CROSLEY DIV.**
Bell Aircraft Corp., Niagara Frontier Div.
Belock Instrument Corp.
Bendix-Pacific Div., Bendix Aviation Corp.
Bendix Radio Div., Bendix Aviation Corp.
Canoga Div., Underwood Corp.
Centronix Inc.
Divco-Wayne Electronics, Div.-Divco-Wayne Corp.
Electronic Communications, Inc.
Emerson Electronic Mfg. Co., The, Electronics & Avionics Div.
Emerson Radio & Phonograph Corp.
Fairchild Astrionics Div., Fairchild Engine & Airplane Corp.
Ford Instrument Co., Div.-Sperry Rand Corp.
General Communication Co.
Gilfillan Bros. Inc.
Goodyear Aircraft Corp.
Hallicrafters
Hazeltine Electronics Div.-Hazeltine Corp.
Hoffman Labs. Div., Hoffman Electronics Corp.
Hughes Aircraft Co.
ITT Federal Div., International Telephone & Telegraph Corp.
ITT Labs.
Litton Industries, Inc.
Litton Industries, Maryland Div.
Lockheed Aircraft Corp., Missiles & Space Div.
W. L. Maxson Corp., The
Monogram Precision Industries
Motorola Inc., Military Electronics Div.
Northrop Corp., The, Nortronics Div.
Philco Corp., Government & Industrial Div.
Radiation, Inc.
Raytheon Mfg. Co.
Raytheon Mfg. Co., Government Equipment Div.
Republic Aviation Corp.
Ryan Aeronautical Co.
Sanders Associates, Inc.
Skiatron Electronics & Television Corp.
Stavid Engrg., Inc.
Telectro Industries Corp.
Telerad Mfg. Corp.
United States Chemical Milling Corp.
Varian Associates
Webcor, Inc., Government Div.
Westinghouse Electric Corp.

RADAR BEACONS

ACF Industries Inc.
Aerolab Development Co.
Amelco, Inc.
American Machine & Foundry Co., Greenwich
Antenna & Radome Research Associates
Bendix Aviation Corp., York Div.
Bendix-Pacific Div., Bendix Aviation Corp.
Canoga Div., Underwood Corp.
Centronix Inc.
Cooper Development Corp., Sub.-Marquardt Aircraft Co.
DBM Research Corp.
Divco-Wayne Electronics, Div.-Divco-Wayne Corp.
Electronic Communications, Inc.
Emerson Radio & Phonograph Corp.
Ferrotran Electronics Co., Inc.
Ford Instrument Co., Div.-Sperry Rand Corp.
General Communication Co.
General Devices, Inc.
Gilfillan Bros. Inc.
Hallamore Electronics Co.
Hazeltine Electronics Div.-Hazeltine Corp.
Hycon Mfg. Co.
ITT Federal Div., International Telephone & Telegraph Corp.
ITT Labs.
Instruments for Industry, Inc.
L E L, Inc.
Lavoie Laboratories Inc.
Litton Industries, Inc.
Litton Industries, Maryland Div.
Lockheed Aircraft Corp., Missiles & Space Div.
Marquardt Aircraft Co.
W. L. Maxson Corp., The
Moran Instrument Corp.
Motorola Inc., Military Electronics Div.
***PACKARD-BELL ELECTRONICS CORP.**
Ralph M. Parsons Co., The, Electronics Div.
Philco Corp., Government & Industrial Div.
Polarad Electronics Corp.
RS Electronics Corp.
Radiation, Inc.
Raytheon Mfg. Co., Government Equipment Div.
Reeves Instrument Corp.
Resdel Engrg. Corp.
Skiatron Electronics & Television Corp.
Stavid Engrg., Inc.
Sterling Precision Corp., Instrument Div.
Telectro Industries Corp.
Telerad Mfg. Corp.
Varian Associates
Webcor, Inc., Government Div.
Westinghouse Electric Corp.

RADAR, PRECISION APPROACH

ACF Industries Inc.
Atlas Precision Products, Co.
***AVCO MFG. CORP., CROSLEY DIV.**
Aviation Textile Associates
Bendix Radio Div., Bendix Aviation Corp.
Centronix Inc.
Gilfillan Bros. Inc.
Hazeltine Electronics Div.-Hazeltine Corp.
ITT Labs
Litton Industries, Inc.
Litton Industries, Maryland Div.
Motorola Inc., Military Electronics Div.
Philco Corp., Government & Industrial Div.
Raytheon Mfg. Co., Government Equipment Div.
Telectro Industries Corp.
Varian Associates
Webcor, Inc., Government Div.
Westinghouse Electric Corp.

RADAR REFLECTORS
See REFLECTORS, RADAR

RADAR, SURVEILLANCE

ACF Industries Inc.
American Machine & Foundry Co., Government Products Group
***AVCO MFG. CORP., CROSLEY DIV.**
Aviation Textile Associates
Bell Aircraft Corp., Niagara Frontier Div.
Belock Instrument Corp.
Bendix Radio Div., Bendix Aviation Corp.
Centronix Inc.
Continental Electronics Mfg. Co.
Edgerton, Germeshausen & Grier, Inc.
Emerson Electric Mfg. Co., The, Electronics & Avionics Div.
Empire Products Sales Corp.
Ford Instrument Co., Div.-Sperry Rand Corp.
Gilfillan Bros. Inc.
Hazeltine Electronics Div.-Hazeltine Corp.
Hoffman Labs. Div., Hoffman Electronics Corp.
Hughes Aircraft Co.
ITT Federal Div., International Telephone & Telegraph Corp.
ITT Labs.
Litton Industries, Inc.
Litton Industries, Maryland Div.
W. L. Maxson Corp., The
Miller Associates
Motorola Inc., Military Electronics Div.
Philco Corp., Government & Industrial Div.
Radiation, Inc.
Raytheon Mfg. Co.
Raytheon Mfg. Co., Government Equipment Div.
Reeves Instrument Corp.
Sanders Associates, Inc.
Skyline Electric & Mfg. Co.
Sperry Piedmont Co. - Div.-Sperry Rand Corp.
Telectro Industries Corp.
Telerad Mfg. Corp.
U. S. Industries, Inc.
Varian Associates
Webcor, Inc., Government Div.
Westinghouse Electric Corp.

RADAR TEST SETS

Airborne Instruments Lab., Div.-Cutler-Hammer, Inc.
American Electronic Labs., Inc.
American Machine & Foundry Co., Government Products Group
American Missile Products Co., Inc.
Andersen Labs.
Atlas Precision Products, Co.
Aviation Textile Associates
Bell Aircraft Corp., Niagara Frontier Div.
Bendix Aviation Corp., York Div.
Bendix Radio Div., Bendix Aviation Corp.
Bernco Engrg. Corp.
CGS Labs., Inc.
California Technical Industries, Div.-Textron Inc.
Canoga Div., Underwood Corp.
Centronix Inc.
Chemalloy Electronics Corp.
Cooper Development Corp., Sub-Marquardt Aircraft Co.
Divco-Wayne Electronics Div., Divco-Wayne Corp.
Douglas Microwave Co., Inc.
Electronic Communications, Inc.
Emerson Electric Mfg. Co., The, Electronics &
Emerson Radio & Phonograph Corp.
Engrg. Associates
FXR, Inc.
Fairchild Astrionics Div., Fairchild Engine & Airplane Corp.
General Communication Co.
Gilfillan Bros. Inc.
Hallicrafters
Hazeltine Electronics Div.-Hazeltine Corp.
Hoffman Labs. Div., Hoffman Electronics Corp.
Hycon Mfg. Co.
ITT Federal Div., International Telephone & Telegraph Corp.
ITT Labs
Instruments for Industry, Inc.
Kaiser Aircraft & Electronics, Div.-Kaiser Industries Corp.
Kay Electric Co.
***KEARFOTT CO., INC.**
***KEARFOTT CO., INC., MICROWAVE DIV.**
Lockheed Aircraft Corp., Missiles & Space Div.
Manson Labs., Inc.
Marconi Instruments
Marquardt Aircraft Co.
Miller Associates
Missouri Research Labs., Inc.
Motorola Inc., Military Electronics Div.
Narda Microwave Corp., The
Northeastern Engrg. Inc.
***PACKARD-BELL ELECTRONICS CORP.**
Philco Corp., Government & Industrial Div.
Polarad Electronics Corp.
Polytechnic Research & Development Co., Inc.
Radar Design Corp.
Radiation, Inc.
Raytheon Mfg. Co., Government Equipment Div.
Skiatron Electronics & Television Corp.
Sperry Microwave Electronics Co., Div.-Sperry Rand Corp.
Telechrome Mfg. Corp.
Telectro Industries Corp.
Telerad Mfg. Corp.
Thomas Electronics, Inc.
Twenty-First Century Electronics, Inc.
Varian Associates
Waldorf Electronics Div.-F. C. Huyck & Sons
Waveline, Inc.
Webcor, Inc., Government Div.

RADIATION BADGES
See BADGES, RADIATION

RADIATION DETECTORS

Airborne Instruments Lab., Div.-Cutler-Hammer, Inc.
Automation Dynamics Corp.
B J Electronics, Borg-Warner Corp.
Baird-Atomic, Inc.
Beva Lab., Inc.
A. Biederman, Inc.
Centronix Inc.
Eastman Kodak Co.
General Electric Co., X-Ray Dept.
Hoffman Labs. Div., Hoffman Electronics Corp.
ITT Labs.
ITT Labs.-Ft. Worth
Jordan Electronics, Div.-Victoreen Instrument Co.
Land-Air Inc.
Landsverk Electrometer Co., The
Lockheed Aircraft Corp., Missiles & Space Div.
Minneapolis-Honeywell Regulator Co., Industrial Div.
National Pneumatic Co., Inc., Holtzer-Cabot Divs.
Nuclear Measurements Corp.
Nuclear-Chicago Corp.
Piasecki Aircraft Corp.
Radiation Instrument Development Lab., Inc.
Sperry Microwave Electronics Co., Div.-Sperry Rand Corp.
Stanley Aviation Corp.
Telectro Industries Corp.
Wintronics
N. Wood Counter Lab.

RADIATION EQUIPMENT, NUCLEAR

Applied Radiation Corp.
Baird-Atomic, Inc.
Beaver Precision Products Inc.
Beva Lab., Inc.
Cambridge Filter Corp.
Centronix Inc.
Communications Research Co.
Curtiss-Wright Corp., Electronics Div.
Curtiss-Wright Corp., Research Div.
Edgerton, Germeshausen & Grier, Inc.
General Electric Co., Apparatus Sales Div.
High Voltage Engrg. Corp.
ITT Labs.
ITT Labs.-Ft. Worth
Jordan Electronics, Div.-Victoreen Instrument Co.
Kollmorgen Optical Corp.
Land-Air Inc.
Landsverk Electrometer Co., The
Lockheed Aircraft Corp., Missiles & Space Div.
Minneapolis-Honeywell Regulator Co., Industrial Product Group
Newbrook Machine Corp.
Nuclear Measurements Corp.
Nuclear-Chicago Corp.
Patterson Moos Div.-Universal Winding Co., Inc.
Radiation Instrument Development Lab., Inc.
Stanley Aviation Corp.
United States Radium Corp.
Westinghouse Electric Corp.

RADIATION PYROMETERS
See PYROMETERS, RADIATION

RADIATORS

Airborne Instruments Lab., Div.-Cutler-Hammer, Inc.
Alpar Mfg. Corp.
Dunham-Bush Inc.
Engelhard Industries, Inc.
Griscom-Russell Co., The
Meridian Metalcraft, Inc.
Tranter Mfg., Inc.
United Aircraft Products, Inc.

RADIATORS, COOLANT

Aro Equipment Corp.
Dunham-Bush Inc.
E. I. Du Pont De Nemours & Co. Inc.
Eastern Industries Inc.
Griscom-Russell Co., The
Tranter Mfg., Inc.
United Aircraft Products, Inc.

RADIATORS, ENGINE-COOLING

Drayer-Hanson Div., National-U. S. Radiator Corp.
Griscom-Russell Co., The
South Wind Div., Stewart Warner Corp.
United Aircraft Products, Inc.

RADIATORS, OIL-COOLING

American Aeroparts
Dunham-Bush Inc.
Griscom-Russell Co., The
South Wind Div., Stewart Warner Corp.
Tranter Mfg., Inc.
United Aircraft Products, Inc.

RADIO COMPASS INDICATORS

Allied International Co.
Bendix Aviation Corp., Eclipse-Pioneer Div.
Collins Radio Co.
ITT Labs.
Lear, Inc., Grand Rapids Div.
Litton Industries, Maryland Div.
Magnavox Co., The
Motorola Inc., Military Electronics Div.
Telectro Industries Corp.
Webcor, Inc., Government Div.

RADIO DIRECTION FINDERS

Allied International Co.
***AVCO MFG. CORP., CROSLEY DIV.**
Bendix Radio Div., Bendix Aviation Corp.
Collins Radio Co.
Dayton Aviation Radio & Equipment Corp.
Hallicrafters
ITT Labs.
Jansky & Bailey, Inc.
***KEARFOTT CO., INC.**
Lane Electronics Mfg. Corp.
Lear, Inc.
Lear, Inc., Grand Rapids Div.
Litton Industries, Maryland Div.
Magnavox Co., The
Munston Mfg. & Sercice, Inc.
National Pneumatic Co., Inc., Holtzer-Cabot Divs.
Philco Corp., Government & Industrial Div.
Precise Development Corp.
Raytheon Mfg. Co.
Raytheon Mfg. Co., Government Equipment Div.
Royal Industries, Inc.
Servo Corp. of America
Specialty Engrg. & Electronics Co.
Sperry Piedmont Co.-Div.-Sperry Rand Corp.
Telectro Industries Corp.
U. S. Science Corp., Div.-Topp Industries, Inc.
Webcor, Inc., Government Div.

RADIO & INSTRUMENT GEARS
See GEARS, RADIO & INSTRUMENT

RADIO & RADAR ALTIMETERS
See ALTIMETERS, RADIO & RADAR

RADIOACTIVE CHEMICALS
See CHEMICALS, RADIOACTIVE

RADIOACTIVITY EQUIPMENT

Beaver Precision Products Inc.
Edgerton, Germeshausen & Grier, Inc.
Hallicrafters
Jordan Electronics, Div.-Victoreen Instrument Co.
Land-Air Inc.
Nuclear-Chicago Corp.
Specialty Engrg. & Electronics Co.
Stanley Aviation Corp.
Telerad Mfg. Corp.
United States Radium Corp.
U. S. Science Corp., Div.-Topp Industries, Inc.
N. Wood Counter Lab.

RADIOSONDES

American Printed Circuits Co., Inc.
B J Electronics, Borg-Warner Corp.
Bendix Aviation Corp., Friez Instrument Div.
Cooper Development Corp., Sub.-Marquardt Aircraft Co.
Daven Co., The
Emerson Radio & Phonograph Corp.
Ferrotran Electronics Co., Inc.
ITT Federal Div., International Telephone & Telegraph Corp.
ITT Labs.
Lieco, Inc.
Motorola Inc., Military Electronics Div.
Reinhold Engrg. & Plastics Co.
Space Corp.
Tapco Group, Thompson-Ramo-Wooldridge Inc.
Telectro Industries Corp.
Tele-Dynamics Inc.
U. S. Science Corp., Div.-Topp Industries, Inc.

RADIOTELEPHONE TRANSMITTERS, PORTABLE & MOBILE
See TRANSMITTERS, PORTABLE & MOBILE, RADIOTELEPHONE

RADOMES

Air Logistics Corp.
Allied International Co.
American Aeroparts
American Insulator Corp.
American Machine & Foundry Co., Greenwich
Antenna & Radome Research Associates
Atkins & Merrill, Inc.
Berger Brothers Co., The
Birdair Structures, Inc.
Continental Can Co., Inc.
Cooper Development Corp., Sub.-Marquardt Aircraft Co.
Corning Glass Works
Curtiss-Wright Corp., Santa Barbara Div.
C. R. Daniels, Inc.
Diamond Antenna & Microwave Corp.
Diversey Engrg. Co.
Emerson & Cuming, Inc.
Emerson Electric Mfg. Co., The, Electronics & Avionics Div.
Emerson Plastics Corp.
Fletcher Mfg. Co., Inc., The
Gladding, McBean & Co.
B. F. Goodrich Industrial Products Co.
Goodyear Aircraft Corp.
Goodyear Tire & Rubber Co., The, Aviation Products Div.
Honeycomb Co. of America, Inc.
Houston Fearless Corp.
Hughes Aircraft Co.
Hughes Tool Co., Aircraft Div.
Hull Corp.
ITT Federal Div., International Telephone & Telegraph Corp.
Kelsey-Hayes Co.
Walter Kidde & Co., Inc., Aviation Div.
H. Koch & Sons
Lamtex Industries, Inc.
Lone Star Plastics Co., Inc.
Mark Products Co.
McMillan Industrial Corp.
Metaplast Corp.
Minnesota Mining & Mfg. Co.
Narmco Mfg. Co.
National Beryllia Corp.
Newbrook Machine Corp.
Perry Plastics, Inc.
Philco Corp., Government & Industrial Div.
Piasecki Aircraft Corp.
Plastic Age Sales, Inc.
Republic Aviation Corp.
***RHEEM MFG. CO., DEFENSE & TECHNICAL PRODUCTS DIV.**
Russell Reinforced Plastics Corp.
Silicone Insulation, Inc.
Specialty Engrg. & Electronics Co.
Teiner Engrg. Corp.
Tel-Labs, Inc.
H. I. Thompson Fiber Glass Co.
Topper Mfg. Co., Inc.
United States Chemical Milling Corp.
Universal Moulded Products Corp.
Vitro Labs.
Webcor, Inc., Government Div.
Westinghouse Electric Corp.
Young Development Div., Hercules Powder Co.

RAM JET FLAMEHOLDERS
See FLAMEHOLDERS, RAM JET

RANGE FINDERS
See FINDERS, RANGE

RARE GASES
See GASES, RARE

RAW CRYSTALS
See CRYSTALS, RAW

REACTORS, SATURABLE

American Research & Mfg. Corp.
Audio Development Co.
Ballastron Corp.
Brach Mfg. Corp., Div.-General Bronze
CGS Labs., Inc.
Chicago Electronic Engrg. Co., Inc.
Coil Co. of America
Dresser Industries, Inc.
Electro Engrg. Works
Electronic Transformer Co., Inc.
Ferranti Electric Inc.
Foster Transformer Co.
General Electric Co., Apparatus Sales Div.
Green Rectifier Co.
Guided Missile Div.-De Havilland Aircraft of Canada, Ltd.
Hevi-Duty Electric Co.
Industrial Transformer Corp.
Keystone Products Co.
Lear, Inc.
Lindberg Engrg. Co.
Magnetic Controls Co.
Minitron Corp.
Minneapolis-Honeywell Regulator Co., Industrial Product Group
NYT Electronics, Inc.
National Pneumatic Co., Inc., Holtzer-Cabot Divs.
Osborne Electronic Sales Corp.
Pacific Magnetic Corp.
Perkin Engrg. Corp.
Qutronic Transformer Corp.
Signal Transformer Co.
Technical Apparatus Builders
Transformer Design, Inc. of Milwaukee
Vari-l Co., Inc.
Varo Mfg. Co., Inc.
Warren Transformer Co., Inc.
Westronics Inc.

READOUT DEVICES, COMPUTER

Advanced Electronics Mfg. Corp.
Alwac Corp.
American Electronics, Inc.
Bendix Aviation Corp., Eclipse-Pioneer Div.
Bendix Aviation Corp., York Div.
Benson-Lehner Corp.
Briggs Associates, Inc.
Bristol Co., The
Burroughs Corp.
Centronix Inc.
DBM Research Corp.
Di-An Controls, Inc.
Digitronics Corp.
Dresser Industries, Inc.
Electro Instruments, Inc.
***ELECTROSNAP CORP.**
***A. W. HAYDON CO., THE**
Hazeltine Electronics Div.-Hazeltine Corp.
ITT Labs.
Librascope Inc.
Milman Engrg. Co.
Motorola Inc., Military Electronics Div.
Philco Corp., Government & Industrial Div.
Royal Industries, Inc.
Sanborn Co.
Shepard Laboratories, Inc.
Skyline Electric & Mfg. Co.
Soroban Engrg., Inc.
Tapco Group, Thompson-Ramo-Wooldridge Inc.
Telectro Industries Corp.
Union Switch & Signal, Div.-Westinghouse Air Brake Co.
Varian Associates
Vitro Labs.
Wang Labs., Inc.
Westronics Inc.

RECEIVERS

a. AM & FM Communication
b. AM Fixed Frequency
c. Communication
d. Direction Finding, Navigation
e. Distance Measuring, Navigation
f. Diversity
g. Diversity Reception
h. Fixed Frequency
i. FM
j. FM Multiplex
k. Frequency Shift
l. Infra-Red, Navigation
m. Microwave
n. Mobile
o. Portable & Mobile
p. Radar
q. Radiation
r. Radio Communication
s. Radio, Hand Powered Emergency
t. Radio, Navigation
u. Remote Pickup, Fixed
v. Selective Signalling, Navigation
w. Short Wave, Fixed
x. Short Wave, Portable
y. Single Side Band
z. Transistor Operated
a1. UHF
b1. VHF
c1. WWV

Adler Electronics, Inc., m, a-1.
Aerojet-General Corp., l.
Aeronca Mfg. Corp., i, a-1.
Airborne Instruments Lab., Div.-Culter-Hammer, Inc., h, m.
Aircom Inc., m, c-1.
Aircom Inc. of New Jersey, m.
Airtron Inc., Div.-Litton Industries, m.
Allied International Co., a thru d, m, n, o, r, w, x, b-1.
Alto Scientific Co., Inc., a, b, i.
Amelco, Inc., a thru d, g thru k, m, n, o, r thru u, w thru z, a-1, b-1, c-1.
American Aeroparts
American Electronics, Inc., Toller & Cooper Div., a, b, j.
American Missile Products Co., Inc., p, z.
Automation Dynamics Corp., m.
***AVCO MFG. CORP., CROSLEY DIV.**, a thru e, h, p, r, z, a-1, b-1.
Babcock Radio Engrg., Inc., a-1, b-1.
Baird-Atomic, Inc., l.
Barker Sales Co., a, b, c, f, g, h, j, k, m, n, o, r, v, a-1, b-1.
Barker & Williamson Inc., g.
Rex Bassett, Inc., b, c, h, n, o, w thru z.
Bell Aircraft Corp., Niagara Frontier Div., m.
Bendix Aviation Corp., York Div., e, m, p.
Bendix Radio Div., Bendix Aviation Corp., a thru l, k m thru p, r, t, v, a-1, b-1.
Bendix-Pacific Div., Bendix Aviation Corp., p.
Blonder-Tongue Labs., Inc., a, i.
Bogen-Presto Co., Div.-Siegler Corp., The, i, j.
Bristol Co., The, h.
Budelman Electronics Corp., a, b, c, h, i, j, m, r, a-1, b-1.
CGS Labs., Inc., b-1.

Canoga Div., Underwood Corp., m, p.
Centronix Inc., a thru k, m thru z, a-1, b-1, c-1.
Collins Radio Co., a thru j, l, m, n, r, t, v thru z, a-1, b-1, c-1.
Communications Co., a, b, c, h, n, r, y, b-1.
Communications Research Co., a, b, c, e thru h, n, r, y.
Continental Mfg., Inc., i, j.
Crosby Laboratories, Inc., f, g, j, y.
Data-Control Systems, Inc., a, h, i, j, z.
Daven Co., The, a, d, h, k, o, t, z, a-1, b-1.
Dayton Aviation Radio & Equipment Corp., a thru d, r, t, z, b-1.
Divco-Wayne Electronics, Div.-Divco-Wayne Corp., a, c, h, p, a-1, b-1.
Eastman Kodak Co., l.
Edmund Scientific Co., l.
Electronic Applications, Inc., i, j.
Electronic Communications, Inc., a, b, c, h thru k, m, p, r, z, a-1, b-1.
Electronic Research Associates, Inc., z.
Elgin Micronics, West Coast Div.-Elgin National Watch Co., a, r.
Emerson Electric Mfg. Co., The, Electronics & Avionics Div., m, p.
Emerson Radio & Phonograph Corp., a thru d, f, g, i, j, k, m thru p, r, z, t, z, a-1, b-1.
Empire Products Sales Corp., m, p.
Engrg. Associates, m, p, a-1, b-1, c-1.
FXR, Inc., h, m, p, a-1, b-1.
Fairchild Astrionics Div., Fairchild Engine & Airplane Corp., m, p.
Ferrotron Electronics Co., Inc., z.
Fisher Research Lab., Inc., c, d, o, z.
Flush Wall Radio Co., a.
General Communication Co., m, p.
General Precision Lab. Inc., d, e, l.
Gilfillan Bros. Inc., p.
Goslin Electric & Mfg. Co., a.
Haller, Raymond & Brown Inc. Div., Singer Mfg. Co., l.
Hallicrafters, a, b, c, h, i, m thru p, r, w, y, z, a-1.
Hammarlund Mfg. Co., Inc., a thru d, f, g, h, k, m, n, p, r, u, v, w, y, a-1, b-1, c-1.
Hazeltine Electronics Div.-Hazeltine Corp., c, e, i, m, p, r, t, a-1, b-1.
Hoffman Labs. Div., Hoffman Electronics Corp., a, c, d, e, p, t, y, a-1, b-1.
I. D. E. A., Inc., a, c, h, n.
ITT Federal Div., International Telephone & Telegraph Corp., d thru h, k, l, m, p, r, t, y, z, a-1, b-1.
ITT Labs, a thru z, a-1, b-1, c-1.
Industrial Television Inc., z.
Instruments for Industry, Inc., p, a-1, b-1.
Jem Electronics Corp., g.
Jansky & Bailey, Inc., c, r.
Kaar Engrg. Corp., a thru d, m, n, r, a-1, b-1.
Kaiser Aircraft & Electronics, Div.-Kaiser Industries Corp., y.
***KEARFOTT CO., INC.**, d, e, l thru o, t.
***KEARFOTT CO., INC., MICROWAVE DIV.**, m.
L E L, Inc., b, h, m thru p, z, a-1, b-1.
Land-Air Inc., a, b, e, r, v, z.
Landsverk Electrometer Co., The, q.
Lane Electronics Mfg. Corp., t, z.
Lavoie Laboratories Inc., c-1.
Leaming Engrg., Inc., f, g, i, m, a-1, b-1.
Lear, Inc., a thru e, h, i, j, l, n, o, r, t, a-1, b-1.
Lear, Inc., Grand Rapids Div., d, r, t, b-1.
Litton Industries, Maryland Div., c, e, j, m, p, y, b-1.
Livingston Electronic Corp., b, z, b-1.
Lockheed Aircraft Corp., Missiles & Space Div., i, j, l, m, p, q, z.
Magnavox Co., The, a, c, d, p, r, t, z, a-1.
Manson Labs., Inc., c, a-1.
Marconi Instruments, a, b, c, h, i, r, w, x, a-1, b-1.
W. L. Maxson Corp., The, d, g, k, m, p.
Microwave Associates, Inc., m, y.
Minneapolis-Honeywell Regulator Co., Industrial Product Group, q.
Miratel, Inc., a, b, c, i, m, n, o, r, w, x, y, a-1, b-1.
Monogram Precision Industries, m.
Motorola Inc., Military Electronics Div., a thru k, m thru p, r thru z, a-1, b-1.
Munston Mfg. & Service, Inc., c, r, z.
Narda Microwave Corp., The, m, a-1.
National Pneumatic Co., Inc., Holtzer-Cabot Divs., a, b, c, i, n, o, r, w thru z.
Nems Clarke Co., Div.-Vitro Corp. of America, a, b, c, h, i, r, a-1, b-1.
***PACKARD-BELL ELECTRONICS CORP.**, a, d, y.
Perry Plastics, Inc., c, n, o.
Philco Corp., Government & Industrial Div., a thru p, r thru z, a-1, b-1, c-1.
Polarad Electronics Corp., m, p, t.
Portchester Instrument Corp., m.
Precise Development Corp., b, d, i, j, z.
Projects Unlimited Inc., b, z.
Q. O. S. Corp., l.
RS Electronics Corp., h, m, p, z, a-1.
Radiation, Inc., l, j, m, p.
Radiatronics, Inc., m.
Radio Specialty Mfg., Co., a.
Railway Communications Inc., n.
Raytheon Mfg. Co., j, m, o, p.
Raytheon Mfg. Co., Government Equipment Div., a thru z.
Resdel Engrg. Corp., a-1, b-1.
Rixon Electronics Inc., c-1.
Arthur C. Ruge Associates, Inc., k-1.
Scientific-Atlanta, Inc., m, q.
H. H. Scott, Inc., i, j.
Seeburg Corp., The, c.
Seeley Electronics, a, b, h, i, n, r, b-1.
Seiscor Mfg. Co., e, t.
Sequoia Wire & Cable Co.-Div.-Mandrell Industries, Inc., a, h thru k, z.
Servo Corp. of America, a, d, l, a-1, b-1.
Simmonds Aerocessories, Inc., h, a-1.
Singer Mfg. Co., The, Military Products Div., l.
Skiatron Electronics & Television Corp., p.
Space Corp., a.
Specialty Engrg. & Electronics Co., e, p, q.
Sperry Gyroscope Co., Marine Div., Div.-Sperry Rand Corp., d, e.
Sperry Microwave Electronics Co., Div.-Sperry Rand Corp., m.
Sperry Piedmont Co.-Div.-Sperry Rand Corp., d, e, p, r, t.
Stanley Aviation Corp., q.
Stavid Engrg., Inc., m, p.
Stoddart Aircraft Radio Co., Inc., a-1, b-1.
Stromberg-Carlson Div.-General Dynamics Corp., a, c, d, e, i, n, o, r, t, u, y, z, a-1, b-1.
Superex Electronics Corp., z.
Systems Inc., p, q.
Tamar Electronics, Inc., b, h, m, u, z.
Telechrome Mfg. Corp., y, a-1, b-1, c-1.
Telectro Industries Corp., a thru e, j, n thru q.
Tele-Dynamics Inc., h, i, j, a-1.
Telerad Mfg. Corp., m, p.
Thiokol Chemical Corp., a thru e, n, o, r, t, v, w, x, a-1, b-1, c-1.
U. S. Science Corp., Div.-Topp Industries, Inc., c, d, e, r, t, y, a-1, b-1.
Varian Associates, m, p.
Virginia Electronics Co., Inc., c, d, e, h, r, t.
Webcor, Inc., Government Div., a thru z, a-1, b-1, c-1.
Westinghouse Electric Corp., a, c.
Zenith Radio Corp., c, d, i, o, r, x, y, z.

RECEIVERS, OMNIRANGE
See OMNIRANGE RECEIVERS

RECEIVING EQUIPMENT, VHF OMNIRANGE

Allied International Co.
American Missile Products Co., Inc.
Bendix Radio Div., Bendix Aviation Corp.
Centronix Inc.
Collins Radio Co.
Dayton Aviation Radio & Equipment Corp.
Electronic Communications, Inc.
Emerson Radio & Phonograph Corp.
Engrg. Associates
Hoffman Labs. Div., Hoffman Electronics Corp.
Hammarlund Mfg. Co. Inc.
ITT Labs.
Lear, Inc.
Lear, Inc., Grand Rapids Div.
Litton Industries, Inc.
Litton Industries, Maryland Div.
Livingston Electronic Corp.
Motorola Inc., Military Electronics Div.
Philco Corp., Government & Industrial Div.
Sperry Piedmont Co.-Div.-Sperry Rand Corp.
U. S. Science Corp., Div.-Topp Industries, Inc.

RECORDERS

a. **Antenna Pattern**
b. **Binaural Tape**
c. **Code**
d. **Data**
e. **Depth**
f. **Disc**
g. **Disc Magnetic**
h. **Electronic Rotary Stylus**
i. **Electronic Self-Balancing Recorders & Indicators**
j. **Facsimile**
k. **Film**
l. **Film Stripe, Magnet**
m. **Film Thickness**
n. **Flight**
o. **Flight Data**
p. **Fluid Conductivity, Electronic**
*q. **Frequency**
r. **Frequency Response**
s. **Humidity, Electronic**
t. **Liquid Level, Electronic**
u. **Magnetic, Mobile Comm.**
v. **Materials Thickness, Electronic**
w. **Mechanical**
x. **Millivolt**
y. **Moisture, Electronic**
z. **Oscillograph**
a1. **Oxygen**
b1. **Polar**
c1. **Potentiometers**
d1. **Power Level**
e1. **Pressure, Electronic**
f1. **Sound Level**
g1. **Specific Gravity, Electronic**
h1. **Strain**
i1 **Tape & Wire**
j1. **Telemetering**
k1. **Temperature, Electronic**
l1. **Timing**
m1. **Torque, Electronic**
n1. **Transient**
o1. **Vacuum**
p1. **Vibration**
q1. **Weight, Electronic**
r1. **XY**

ACF Industries, h-1.
Acton Labs. Inc., z.
Aeronutronic Systems, Inc., Sub.-Ford Motor Co., q.
Air Logistics Corp., c, m, n.
Airborne Instruments Lab., Div.-Cutler-Hammer, Inc., a, b-1, r-1.
Airpax Electronics Inc. Seminole Div., q.
Allegany Instrument Co., Inc., d, z, a-1, h-1, k-1, n-1.
Alwac Corp., r-1.
Amelco, Inc., d, j-1, l-1.
American Electronics, Inc., Taller & Cooper Div., a, t, j-1, q-1.
American Machine & Foundry Co., Government Products Group, a, q, n-1, q-1.
American Missile Products Co., Inc., a, z, j-1.
Amplifier Corp. of America, i-1.
Antlab Inc., a, b-1, d-1.
Applied Science Corp. of Princeton, n, a, j-1.
***ARNOUX CORP.**, d, o, x.
Associated Engrg. & Mfg. Corp., i-1.
Atlas Precision Products Co., w.
Audio-Master Corp., i-1.
B & F Instruments, Inc., h-1, m-1.
B & K Instruments, Inc., r, b-1, f-1, p-1.
Barker Sales Co., j-1.
Beckman Instruments, Inc., Berkeley Div., d, q, l-1.
Beckman-Systems Div., d, j-1.
Bendix-Pacific Div., Bendix Aviation Corp., j-1.
Benson-Lehner Corp., d, k, n, r-1.
Bogen-Presto Co., Div.-Siegler Corp., The, b, i-1.
Bowser, Inc., Defense Dept., y.
Briggs Associates, Inc., c, d.
Bristol Co., The, i, p, q, w, x, a-1, c-1, d-1, g-1, h-1, j-1, k-1, l-1, a-1, r-1.
Broadcast Equipment Specialties Corp., i-1.
Brush Instruments, Div.-Clevite Corp., g, h, n, o, p, r, x, z, a-1, h-1, j-1, p-1, q-1.
Bulow Electric Co., t, i-1, j-1.
Burke & James Inc., k.
CDC Control Services, Inc., a, q-1.
California Technical Industries, Div.-Textron Inc., a.
Cambridge Instrument Co., Inc., a-1.
Camera Mart Inc., The, k, l.
Centronix Inc., c, d, e, h, r, u, z, h-1, j-1, l-1, n-1.
Century Electronics & Instruments, Inc., d, a, z.
Chesapeake Instrument Corp., a.
Chicago Aerial Industries, Inc., d, k.
Consolidated Electrodynamics Corp., d, n, o, u, y, z, a-1, a-1, h-1, i-1, j-1, p-1.
Data-Control Systems, Inc., d, r, j-1.
Datran Electronics, Div.-Mid-Continent Mfg., Inc., i, h-1.
Dresser Industries, Inc., d, r, z, j-1, n-1.
M. Ducommun Co., l-1.
Edgerton, Germeshausen & Grier, Inc., j-1, l-1.
Edin-Div.-Epsco, Inc., z.
Edwards Engrg. Co., b, n, a, i-1.
Electro Instruments, Inc., r-1.
Electronic Applications, Inc., b, q, i-1.
Electronic Engrg. Co. of California, a, h-1, l-1, p-1.
Electro-Tech Equipment Co., x.
Emerson Radio & Phonograph Corp., u, i-1.
Engrg. Associates, q, x.
Epic, Inc., z, p-1.
Esterline-Angus Co., Inc., The, x, l-1.
FXR, Inc., q.
Federal Mfg. & Engrg. Corp., i-1.
Fischer & Porter Co., i, t, a-1, g-1, j-1, k-1.
Fisher Research Lab., Inc., t, x, y, h-1.
Flight Research, Inc., k.
General Electric Co., Apparatus Sales Div., i, q, v, x, z, d-1, l-1.
General Electric Co., Computer Dept., d.
General Electric Co., X-Ray Dept., d, k, a.
General Kinetics, Inc., i-1.
General Precision Lab. Inc., k, a.
General Scientific Equipment Co., c-1.
Gilmore Industries, Inc., h-1, m-1, q-1, r-1.
Gordon Enterprises, d, k, a, z, i-1.
Graflex Inc., i-1.
Green Rectifier Co., a-1.
Gulton Industries, Inc., p-1.
Hagan Chemicals & Controls, Inc., a-1, h-1.
Hallamore Electronics Co., j-1.
Hallicrafters, q.
Hamilton Watch Co.-Industrial Div., z.
Hays Corp., The, a-1.
Heiland Div.-Minneapolis-Honeywell, z.
High Vacuum Equipment Corp., a-1.
Hoffman Labs. Div., Hoffman Electronics Corp., a.
Hogan Laboratories, Inc., d, j, n, o, w, z, b-1, j-1.
Hull Corp., a-1.
ITT Labs., d, j, n, o, q, r.
Industrial Instruments Inc., p, a-1.
Instrumentation Div.-Ampex Corp., c, d, n, o, u, f-1, j-1.
Instruments Corp., The, s, j-1.
Kinevox Div.-Electromation Co., d, k.
Land-Air Inc., d, j-1.
Leach Corp., d, a, i-1, j-1.
Leeds & Northrup Co., a, d, l, p, s, t, z, a-1 thru a-1, h-1, k-1, q-1, r-1.
Librascope Inc., r-1.
Liquidometer Corp., The, t.
Litton Industries, Inc., f, g, j, j-1.
Livingston Electronic Corp., b.

MB Mfg. Co., p-1.
Magnaflux Corp., m, v, h-1.
Magnavox Co., The, e, r-1.
Magnetic Instrument Co. Inc., i, t.
Markite Corp., c-1.
Massa Div.-Cohu Electronics, Inc., d, o, r, z, n-1.
W. L. Maxson Corp., The, k.
Merz Engrg., Inc., v.
Mid-Century Instrumatic Corp., d, z.
Midwestern Instruments, Inc., b, d, k, n, o, z, h-1, i-1, j-1.
Miles Reproducer Co. Inc., k, i-1.
Milgo Electronic Corp., d, r-1.
Minicom Div., Minnesota Mining & Mfg. Co., a, i-1, j-1, n-1, p-1.
Mine Safety Appliances Co., a-1.
Minicord Corp. of America, i-1.
Minneapolis-Honeywell Regulator Co.-Davies Labs. Div., d, n, o, u, i-1, j-1.
Minneapolis-Honeywell Regulator Co., Industrial Div., d, i, p, q, s, t, y, c-1, e-1, g-1, h-1, j-1, k-1, o-1, r-1.
Minneapolis-Honeywell Regulator Co., Industrial Product Group, i, n thru q, s, t, x, y, z, c-1 thru k-1, m-1 thru r-1.
Minnesota Mining & Mfg. Co., b, d, l, u, i-1, j-1.
F. L. Moseley Co., i, x, c-1, r-1.
Motorola Inc., Military Electronics Div., d, k, j-1, r-1.
NRC Equipment Corp., o-1.
National Electronics, d-1.
National Research Corp., o-1.
New England Scientific Instruments Co., x, z, n-1.
Northeastern Engrg. Inc., q.
Northrop Corp., a.
Norton Associates, Inc., l.
Norwood Controls Unit Detroit Controls Div., t, e-1, h-1, j-1, k-1.
Nuclear Products-Erco Div.-ACF Industries, Inc., r-1.
Offner Electronics Inc., x, z, h-1.
Orbitron Co., Inc., q-1.
Pacific Scientific Co., p-1.
***PACKARD-BELL ELECTRONICS CORP.**, i-1.
Peirce Dictation Systems, i-1.
Photron Instrument Co., d, o, r, z, h-1.
Potter Aeronautical Corp., g-1.
Radiaphone Co. Inc., j-1.
Radiation, Inc.
Raymond Engrg. Lab., Inc., i-1, l-1.
Research Appliance Co., d, i, c-1, k-1.
Richardson Scale Co., q-1.
Royal Industries, Inc., a, i.
Sanborn Co., q, r, z, d-1, e-1, f-1, h-1, i-1, q-1, r-1.
Schaevitz Engrg., r-1.
Scientific-Atlanta, Inc., a, b-1.
Seiscor Mfg. Co., z.
Shepard Laboratories, Inc., i-1.
Singer Mfg. Co., The, Military Products Div., w, i-1, j-1.
Somers Brass Co. Inc., i-1.
Soroban Engrg., Inc., c, d, w, i-1.
Southwestern Industrial Electronics Co., d, i-1.
Space Corp., t.
Strand Engrg. Co., k.
Sun Electric Corp., Aeronautical Div., a, z.
Systron Corp., o, q, e-1, h-1, j-1 thru m-1, q-1.
Tapco Group, Thompson-Ramo-Wooldridge Inc., z.
Technology Instrument Corp., q, r, z, c-1, e-1.
Telechrome Mfg. Corp., i, x.
Telectro Industries Corp., a thru d, j, n, o, u, i-1, j-1, r-1.
Thermo Electric Co., Inc., k-1.
Thwing-Albert Instrument Co., k-1, r-1.
Traid Corp., k, n, a.
Universal Dynamics Corp., s.
Varian Associates, i, x, c-1, k-1.
Victor Adding Machine Co., n, w.
Victory Engrg. Corp., k-1.
Vitro Labs., c, d.
Waldorf Electronics., Div.-F. C. Huyck & Sons, r-1.
Wang Labs., Inc., d.
Waste King Corp., Technical Products Div., d, n, a.
Webcor, Inc., Government Div., b, c, d, n, o, u, i-1.
West Instrument Corp., x, c-1, e-1, k-1.
Weston Instruments, Div.-Daystrom, Inc., i, q, s, v, w, x, c-1, e-1, k-1, o-1.
Westronics Inc., a, d, e, i, p, q, s, t, x, y, a-1, c-1 thru h-1, k-1, m-1, p-1, q-1, r-1.
Wright Engrg. Co., a.
Yellow Springs Instrument Co., The, k-1.

RECORDERS, AIRBORNE FILM

Applied Science Corp. of Princeton
Chicago Aerial Industries, Inc.
Consolidated Electrodynamics Corp.
Eastman Kodak Co.
Flight Research, Inc.
Gordon Enterprises
Hallicrafters
Hycon Mfg. Co.
Kinevox Div.-Electromation Co.
Magnasync Mfg. Co., Ltd.
Magnavox Co., The
Midwestern Instruments, Inc.
Specialties, Inc.
Sun Electric Corp., Aeronautical Div.
Traid Corp.

RECORDERS, AIRBORNE MAGNETIC

American Electronics, Inc.
Audio-Master Corp.
B J Electronics, Borg-Warner Corp.
Broadcast Equipment Specialties Corp.
Centronix Inc.
Consolidated Electrodynamics Corp.
Edwards Engrg. Co.
Elgin Micronics Div.-Elgin National Watch Co.
Emerson Radio & Phonograph Corp.
Federal Mfg. & Engrg. Corp.
General Precision Lab. Inc.
Graflex Inc.
Hallicrafters
Instrumentation Div.-Ampex Corp.
Kinevox Div.-Electromation Co.
Leach Corp.
Litton Industries, Inc.
Magnasync Mfg. Co., Ltd.
Midwestern Instruments, Inc.
Minicom Div., Minnesota Mining & Mfg. Co.
Minneapolis-Honeywell Regulator Co.-Davies Labs. Div.
Minneapolis-Honeywell Regulator Co., Industrial Product Group
Minnesota Mining & Mfg. Co.
***PACKARD-BELL ELECTRONICS CORP.**
Peirce Dictation Systems
Seeburg Corp., The
Space Corp.
Sun Electric Corp., Aeronautical Div.
Telectro Industries Corp.
Victor Adding Machine Co.
Webcor, Inc., Government Div.
Winzen Research Ind.

RECORDING DRIVERS
See DRIVERS, RECORDING

RECORDING PAPER
See PAPER, RECORDING

RECTIFIER POWER UNITS

Applied Radiation Corp.
Consolidated Diesel Electric Corp.
Control Circuits Inc.
Dresser Industries, Inc.
General Electric Co., Apparatus Sales Div.
Green Rectifier Co.
Guided Missile Div.-De Havilland Aircraft of Canada, Ltd.
ITT Federal Div., International Telephone & Telegraph Corp.
Kahn & Co., Inc.
Land-Air Inc.
Meteor Production Engrg., Inc.
Sanford Miller Co.
***MIRAX CHEMICAL PRODUCTS CORP., ELECTRO-MECHANICAL PRODUCTS DIV.**
Motoresearch Co.
Perkin Engrg. Corp.
Peschel Electronics, Inc.
Precise Development Corp.
Rapid Electric Co.
Republic Aviation Corp.
Schauer Mfg. Corp.
Sel-Rex Corp.
A. O. Smith Corp.
Syntron Co.
Talley Corp., The
Technical Apparatus Builders
Tel-Instrument Electronics Corp.
Winder Aircraft Corp. of Florida

RECTIFIERS

a. Copper Oxide
b. Electronic Tube
c. Germanium
d. Mercury Arc
e. Metal Sulphide
f. Metallic Oxide
g. Metallic, Power Supplies
h. Metallic Stack
i. Selenium
j. Silicon
k. Titanium
l. Tube
m. Tube Rectifying Units

Aeroject-General Corp.
Aerolab Development Co., g.
Allied Research Products, Inc., i, j.
Allis-Chalmers, c, i, j, m.
American Elite, Inc., b, l.
Astronetics, Inc., g.
Audio Devices, Inc., j.
Audio Devices, Inc.-Rectifier Div., j.
Bendix Aviation Corp., Red Bank Div., b, j.
Bendix Aviation Corp.-Semiconductor Products, Red Bank Div., j.
Bogue Electric Mfg. Co., g, j.
Bradley Semiconductor Corp., a, f thru j.
Britton Electronics Corp., i, j.
CBS-Hytron, Div.-Columbia Broadcasting System, Inc., b, l.
Christie Electric Corp., g.
Clark Electronic Labs., c, i, j, l.
Columbus Electronics Corp., j.
Conant Labs., a, i.
Consolidated Diesel Electric Corp., b, g, l, m.
Continental Electronics Mfg. Co., m.
Control Circuits Inc., i.
Davenport Mfg. Co., m.
Dresser Industries, Inc., m.
Edgerton, Germeshausen & Grier, Inc., l.
Eitel-McCullough, Inc., l.
Electronic Communications, Inc., m.
Electro-Tech. Equipment Co., i.
Erie Resistor Corp., c, j.
Finney Co., The, i.
General Electric Co., Apparatus Sales Div., d, g.
Good-All Electric Mfg. Co., c, i, j.
Green Rectifier Co., c, f thru j, m.
Hoffman Electronics Corp., Semiconductor Div., j.
Hughes Aircraft Co., j.
International Rectifier Corp., c, h, i, j.
International Resistance Co., i.
Knopp Inc.
Ling Electronics, Inc., b, l.
P. R. Mallory & Co. Inc., e, j.
Meteor Production Engrg., Inc., i, j, m.
Sanford Miller Co., g thru j.
Model Rectifier Corp., g.
Motorola Inc., Military Electronics Div., c, j.
Multi-Amp Corp., c, e, g.
North American Electronics Inc., h, j.
Pacific Semiconductors, Inc., j.
Peschel Electronics, Inc., m.
Power Supplies Inc., g, m.
Precise Development Corp., g.
Radio Industries, Inc., i.
Rapid Electric Co., b, i, j.
Raytheon Mfg. Co., j, l.
Rectico, Inc., a, d thru j.
Rex Corp., The, Sub.-American Enka, h.
Schauer Mfg. Corp., a, f, g, h.
Sperry Semiconductor Div., Sperry Rand Corp., j.
State Testing Lab. Inc., c, i.
Strong Scott Mfg. Co., The, m.
Sylvania Electric Products Inc., Semiconductor Div., c, j.
Syntron Co., g thru j.
Technical Apparatus Builders, a thru l.
Thermosen Inc., j.
Transmares Corp.
Trans-Sil Corp., f, g, h, j.
Union Switch & Signal, Div.-Westinghouse Air Brake Co., a.
U. S. Semiconductor Products, Inc., j.
United States Dynamics Corp., b, c, g, j.
Wesrep Corp., j.
Westinghouse Electric Corp., a, c, d, i, j.
Weston Instruments, Div.-Daystrom, Inc., a.
Winder Aircraft Corp. of Florida, g.

REDUCERS, SHAFT

Arch Gear Works Inc.
Diversey Engrg. Co.
Lovejoy Flexible Coupling Co.
Lundy Mfg. Corp.
Talley Corp., The
Western Gear Corp.

REFLECTED & TRANSMITTED LIGHT SCANNERS
See SCANNERS, REFLECTED & TRANSMITTED LIGHT

REFLECTORS, RADAR

Ainslie Corp.
Atlas Precision Products Co.
Brooks & Perkins, Inc.
Diamond Antenna & Microwave Corp.
Gilfillan Bros. Inc.
Haller, Raymond & Brown Inc., Div.-Singer Mfg. Co.
I-T-E Circuit Breaker Co.
ITT Federal Div., International Telephone & Telegraph Corp.
***LAVELL AIRCRAFT CORP.**
Mc Millan Industrial Corp.
Narmco Mfg. Co.
Plastic Age Sales, Inc.
Precision Sheet Metal, Inc.
Radiation, Inc.
C.W. Torngren Co., Inc.
Turbo Machine Co.
Winder Aircraft Corp. of Florida
Winzen Research Inc.

REFRIGERATION EQUIPMENT, AIRBORNE

***AIRESEARCH MFG. CO., DIV.-THE GARRETT CORP.**
Alco Valve Co.
American Aeroparts
Bendix Utica Div., Bendix Aviation Corp.
Eastern Industries Inc.
Ellis & Watts Products, Inc.
Hallicrafters
Hamilton Standard, Div.-United Aircraft Corp.
Hydromatics, Inc.
Monrovia Aviation Corp.
Mueller Brass Co.
Northrop Corp.
Reinhold Engrg. & Plastics Co.
Safety Electrical Equipment Corp.
Stratos, Div.-Fairchild Engine & Airplane Corp.
United Aircraft Products, Inc.
Universal Dynamics Corp.
Waste King Corp., Technical Products Div.
Winzen Research Inc.

REFRIGERATION EQUIPMENT, GROUND

***AIRESEARCH MFG. CO., DIV.-THE GARRETT CORP.**
Alco Valve Co.
American Air Filter Co., Defense Products Div.
***ASSOCIATED TESTING LABS., INC.**
Bendix Utica Div., Bendix Aviation Corp.
Bogue Electric Mfg. Co.

Carrier Corp.
Consolidated Diesel Electric Corp., Western Div.
Croll-Reynolds Co. Inc.
Doyle & Roth Mfg. Co., Inc.
Drayer-Hanson Div., National-U.S. Radiator Corp.
Dresser Industries, Inc.
Eastern Industries Inc.
Ellis & Watts Products, Inc.
Gremco, Inc.
Hallicrafters
Hamilton Standard, Div.-United Aircraft Corp.
Paul Hardeman, Inc.
C. G. Hokanson Co., Inc.
Hughes Tool Co., Aircraft Div.
Hull Corp.
Hydromatics, Inc.
Instruments Div.-Philips Electronics, Inc.
International Radiant Corp.
Jamison Cold Storage Door Co.
Jet-Heet, Inc.
Magee-Bralla & Associates
Monrovia Aviation Corp.
Mueller Brass Co.
Pioneer Industries Div., Almar-York Co. Inc.
Ravenna Metal Products, Div.-Standard Screw Co.
Safety Electrical Equipment Corp.
Sterling Precision Corp., Instrument Div.
Stratos, Div.-Fairchild Engine & Airplane Corp.
Thermo King Corp.
Tower Mfg. Corp.
Tranter Mfg., Inc.
United Aircraft Products, Inc.
Universal Dynamics Corp.
Vilter Mfg. Co., The
Westinghouse Electric Corp.
York Corp.

REGULATORS

a. Air
b. Air Combustion
c. Air Pressure
d. Battery Charging
e. Cable Tension
f. Coolant
g. Demand Oxygen
h. Frequency
i. Fluid Flow
j. Fuel Flow
k. Fuel Pressure
l. Generator
m. Hydraulic Pressure
n. Liquid Level
o. Manifold Pressure
p. Oil Cooler
q. Oil Pressure
r. Oil Pump Flow
s. Oil Temperature
t. Oxygen
u. Temperature
v. Vacuum Systems
w. Voltage Frequency
x. Voltage Regulators & Stabilizers
y. Water Injection
z. Water Metering

ACF Industries Inc., b, c, h, j, k, q, w thru z.
Accessory Products Co., Div.-Textron Inc., a, b, c, i, k thru o, s, t.
Acme Electric Corp., d, x.
Actuation Research Corp., a, c, i, j, m.
Adel Precision Products of California, Div.-General Metals Corp., m, q, r.
Aero Supply Mfg. Inc., i, j, k, m, n, q, r, y, z.
Aeroject-General Corp., i, j, k, m, n.
Aerolab Development Co., h, w, x.
Aerotec Corp., The, a, b, c, i, j, k, m, n, q.
Air Products, Inc., c, g, i.
Air Reduction Sales Co., Div.-Air Reduction Co., Inc. t.
***AIRESEARCH MFG. CO. OF ARIZ.**, a, c, i, s, u.
***AIRESEARCH MFG. CO., DIV.-THE GARRETT CORP.**, a, c, f thru k, p, q, s, t, u.
Altair, Inc., a, c, g, i, m, q, t.
Amelco, Inc., h.
American Aeroparts, e, g thru k, o thru u.
American Electronics, Inc., Electric Machinery & Equipment Div., h, l, w, x.
American Instruments Co., Inc., u.
American Research & Mfg. Corp., x.
Amplifier Corp. of America, x.
Applied Dynamics Corp., a, c.
Aro Equipment Corp., a, c, g, t.
Astronautics Engrg. Co., i, j.
Automation Products, Inc., n.
Barber-Colman Co., u.
Bar-Ray Products, Inc., u.
Barrett-Christie Co., a, c, i, u.
Benbow Mfg. Corp., a, c, i, m.
Bendix Aviation Corp., Pioneer-Central Div., g, n, t.
Bendix Aviation Corp., Red Bank Div., d, h, l, w, x.
***BENDIX PRODUCTS DIV., BENDIX AVIATION CORP.**, j, k.
Bendix-Pacific Div., Bendix Aviation Corp., i, m.
Bendix Utica Div., Bendix Aviation Corp., a, c, i, j, k.
Beva Lab., Inc., w, x.
A. Biederman, Inc., g.
Bobrick Mfg. Corp., a, c, e, i, m.
Bogue Electric Mfg. Co., d, h, l, n, u, w, x.
Brach Mfg. Corp., Div.-General Bronze, x.
Breeze Corporations, Inc., a.
Brooks Rotometer Co., i, j, n, r, z.
Carleton Aviation Co., a, b, c, i, j, k, m, o, t, y, z.
Carruthers & Fernandez, Inc., w, x.
J. C. Carter Co., The, i, j, k, n, y, z.
A. W. Cash Valve Mfg. Corp., k, m, q, s, t, u.
Central Electronic Mfrs., Div.-Nuclear Corp. of America, v.
Central Transformer Co., x.
Chandler Evans Corp., a, c, f, i, j, k, m, q, y, z.
Clary Dynamics, a, b, c, g, i, k, m, n, q, t, y, z.
Com-Air Products, Div.- A S R Products Corp., a, i, m, q.
Components Corp., a, c, i, j, k, n, q, r, z.
Conoflow Corp., a, b, c, v.
Consolidated Controls Corp., a, c, i, j, k, m, q, s, u, v.
Consolidated Diesel Electric Corp., a, b, c, i, j, k, m, o thru s, u, v.
Controls Co. of America, i, n.
Cornelius Co., The, Aero Div., a, c, v.
Daven Co., The, h, w, x.
Davenport Mfg. Co., x.
Delco-Remy Div., General Motors Corp., d, l, x.
Denison Engrg. Div., American Brake Shoe Co., m, q, r.
Donner Scientific Co., x.
Dresser Industries, Inc., i, j, x.
R. C. Dudek & Co., x.
Dumont Aircraft Fitting Co., c, i, m.
Dynamic Controls Corp., i, m, n, u.
Electric Auto-Lite Co., The, l.
Electric Regulator Corp., d, h, k, l, m, r, w, x.
Electrol Inc., m.
Electro-Mechanical Products Co., d, l, x.
Electronic Research Associates, Inc., w, x.
Electro-Tech Equipment Co., x.
Engineered Magnetics, Div.-Gulton Industries, Inc., d, x.
Fairfield Engrg. Corp., h, x.
Fidelity I nstrument Corp., h, l, w, x.
Firewel Co., Inc., The, g.
Fischer & Porter Co., c, i, j, k, m, n, o, q, s, t, u, z.
Fisher Governor Co., a, c, i, k, m, t, y.
General Electric Co., Apparatus Sales Div., h, l, u, w, x.
General Scientific Equipment Co., g, t.
Gits Brothers Mfg. Co., a.
Goslin Electric & Mfg. Co., w, x.
Gray Co., Inc., a, c, i, k.
Green Rectifier Co., d, v, x.
Grove Valve & Regulator Co., a, c, i, k, m, q, r, y, z.
Guided Missile Div.-De Havilland Aircraft of Canada, Ltd., d, h, l, w, x.
Hagan Chemicals & Controls, Inc., a, c, i, j, k, m, n, p, s, t, z.
Hallicrafters, x.
Hamilton Standard, Div.-United Aircraft Corp., a, c, h, w, x.
Hannifin Co., Div.-Parker-Hannifin Corp., a, c, m.
High Vacuum Equipment Corp., v.
E. Vernon Hill & Co., u, w.
Hoffman Electronics Corp., Semiconductor Div., x.
Hoke Inc., a, c, i.
Hughes Tool Co., Aircraft Div.
Hull Corp., v.
Hydra-Power Corp., i, m, q.
***HYDRO-AIRE CO., DIV.-CRANE CO.**, a, c, i, j, l, w, x.
Hydrodyne Corp., Skinner Seal Div., c, i, j, k, m.
Hydromatics, Inc., i, j, k, m, t.
ITT Federal Div., International Telephone & Telegraph Corp., h.
Industrial Engrg. Corp., m.
Integral Corp., a, m.
Interstate Engrg. Corp., c, i, k.
Jack & Heintz, Inc., h, l, w, x.
***JANITROL AIRCRAFT DIV., SURFACE COMBUSTION CORP.**, a, b, c, k, v.
Kemp Aero Products, a, c, g, i, j, k, m, q, t, u.
Walter Kidde & Co., Inc., Aviation Div., a, c.
Kinney Mfg. Div., The New York Air Brake Co., v.
Kohler Co., k, m.
Korda Industries, i, j, k, a.
Leach Corp., h, w, x.
Lear, Inc., v.
Leeds & Northrup Co., u.
Leland Airborne Products, Div.-American Machine & Foundry Co., d, h, l, w, x.
***WALLACE O. LEONARD, INC.**, a, c, g, i, k, m, n, q, t, v.
Leslie Co., a, c, i, j, k, m, n, q, s, u.
Linde Co., Div.-Union Carbide Corp., t.
M. C. Mfg. Co., m.
Magnetic Controls Co., x.
Marotta Valve Corp., a, c, i, k, m, t.
Jas. P. Marsh Corp., u.
Mason-Neilan, b, i, k, m, n, u.
Matheson Co., Inc., The, c, t.
Metals & Controls Corp., Spencer Div., u.
Meteor Production Engrg., Inc., d.
Mine Safety Appliances Co., g.
Minitran Corp., x.
Minneapolis-Honeywell Regulator Co., Industrial Div., i, k, m, n, s.
Minneapolis-Honeywell Regulator Co., Industrial Product Group, a, c, h thru k, n, o, u, w, x.
Mucon Corp., d.
National Instrument Laboratories, Inc., l.
National Research Corp., v.
National Spectrographic Labs., Inc., w, x.
National Welding Equipment Co., a.
Networks Electronic Corp., x.
Ernest Norman Laboratories, h.
North American Electronics Inc., x.
Ohmart Corp., The, n.
Oil-Dyne, Inc., m, q, r.
Oxygen Equipment & Service Co., g, t, v.
Ozone Metal Products Corp., i, m.
Pacific Scientific Co., a.
Papesch & Kolstad, Inc., u.
Parker Aircraft Co., a, b, c, i, j, k, m, n, o, u.
Penberthy Mfg. Co., n.
Perkin Engrg. Corp., d, h, l, w, x.
Pneu-Hydro Valve Corp., a, c, g, i, j, k, m, t.
Power Designs Inc., d, x.
Power Sources, Inc., h, w, x.
Power Supplies Inc., d, l, w, x.
Power-Tronic Systems Inc., w, x.
Process & Instruments, v.
Puritan Compressed Gas Corp., Aviation Div., g, t.
Pyles Industries, Inc., a.
Pyrometer Instrument Co., Inc., u.
Racine Hydraulics & Machinery Inc., a, q, r.
Randall Engrg. Corp., a, c, i, m, t.
Raytheon Mfg. Co., x.
Reaction Motors Div., Thiokol Chem. Corp., i, j, k.
Republic Mfg. Co., c, m, q.
Research Appliance Co., v.
Research Controls, a, c, i, j.
Ronson Hydraulic Units Corp., c, m.
Safety Electrical Equipment Corp., d, l, v, w.
Sargent Engrg. Corp., a, c, i, m, q, r.
Scaico Controls, Inc., s, u.
Scientific Instrument Co., c, u.
Sequoia Wire & Cable Co., Div.-Mandrel Industries, Inc., x.
Simmonds Aerocessories, Inc., i, j, n.
A. O. Smith Corp. - Smith-Erie Div., i.
Sorensen & Co., Inc., h.
South Wind Div., Stewart Warner Corp., p.
Special Instruments Div., British Industries Corp., x.
Specialty Engrg. & Electronics Co., w, x.
Spectrol Electronics Corp., h, w.
Standard-Thomson Corp., Clifford Mfg. Co. Div., p, r, a.
Sterling Precision Corp., Instrument Div., x.
A. U. Stone & Co., Inc., i, j, k, m, q, r, z.
Stratos, Div.-Fairchild Engine & Airplane Corp., a, c, i, j, u.
Superior Electric Co., The, x.
Surface Combustion Corp., c.
Tapco Group, Thompson-Ramo-Wooldridge Inc., h thru l, w, y.
Technical Apparatus Builders, d, w, x.
Tel-Instrument Electronics Corp., x.
Temperature Engrg. Corp., u, v.
Torwico Electronics, Inc., x.
Transitron Electronic Corp., x.
Transonic, Inc., w, x.
United Aircraft Products, Inc., a, c, f, i, j, k, m, n, p thru s, u, v, w, y.
United Control Corp., a, u.
United Electric Controls Co., a, c, g, k thru v.
U. S. Science Corp., Div.-Topp Industries, Inc., h.
Vap-Air Aeronautical Products Div., Vapor Heating Corp., c.
Veeco Vacuum Corp., v.
Vickers Inc., Marine & Ordnance Dept., Machinery Hydraulics Div., m.
Victory Engrg. Corp., t, u.
Vinson Mfg. Co. Inc., c, i, j, k, m, n, q, r, t.
Waldorf Fluid Systems. Div.-F.C. Huyck & Sons, a, c, i, j, k, m, o, r, v.
Wallace & Tiernan Inc., c.
Western Design, Div.-U.S. Industries, Inc., Santa Barbara Div., x.
Westinghouse Air Brake Co., Industrial Products Div., c.
Westinghouse Electric Corp., w, x.
Weston Hydraulics Ltd.-Sub., Borg-Warner Corp., a, c, i, k, m.
Yellow Springs Instrument Co., The, u.

REINFORCED PLASTICS

Aero Gasket Corp.
Aeroject-General Corp.
Air Logistics Corp.
Allied Plastics Supply Corp.
American Printed Circuits Co., Inc.
Apex Reinforced Plastics, Div.-White Sewing Machine Corp.
Aristocrat Plastics, Inc.
Atkins & Merrill, Inc.
Carl H. Biggs Co.
Bonny Mfg. Corp.
Calfibe Co., Inc.
Chemold Co.
Chemplast, Inc.
Chicago Gasket Co.
Cincinnati Milling Machine Co., The
Collins Engrg. Corp.
Colonial Aircraft Corp.
Continental Can Co., Inc.
Continental Diamond Fibre Corp.
Cornell Deep Drawing Co., Div.-Lanes Industries Corp.
Crystal-X Corp.
Curtiss-Wright Corp., Santa Barbara Div.
Curtiss-Wright Corp., Utica Div.
DBM Research Corp.
Dayton Aircraft Products, Inc.

Delta Products Div.-Air Accessories, Inc.
Dixon Corp.
***DOW CORNING CORP.**
Durez Plastics Div.-Hooker Chemical Corp.
Electrical Insulation Co., Inc.
Electro Technical Products Div., Sun Chemical Corp.
Eljay Corp.
Emerson & Cuming, Inc.
Emerson Plastics Corp.
Emmco Plastic Fabricators -Div.-E. M. McCarthy Machine Co.
Fischer & Porter Co.
Fletcher Mfg. Co., Inc., The
Fluorocarbon Co., The
Franklin Fibre-Lamitex Corp.
Fruehauf Trailer Co., Military Equipment Div.
Gatke Corp.
General Plastics Corp. of New Jersey
Goodyear Aircraft Corp.
Hardman Tool & Engrg. Co.
Haveg Industries, Inc.
Homalite Corp., The
Hughes Tool Co., Aircraft Div.
Integrated Mica Corp.
Jarvis Corp.
Joclin Mfg. Co.
Jodee Plastics Co.
Johns-Manville
Johns-Manville Sales Corp.
Kerrco Products
Walter Kidde & Co., Inc., Aviation Div.
H. Koch & Sons
Lamtex Industries, Inc.
Liss Products, Inc.
Magee-Bralla & Associates
Mc Millan Industrial Corp.
Mica Insulator Div.-Minnesota Mining & Mfg. Co.
Minnesota Mining & Mfg. Co.
National Vulcanized Fibre Co.
New England Laminates Co., Inc.
Perry Plastics, Inc.
Piasecki Aircraft Corp.
Plastic Age Sales, Inc.
Prewitt Aircraft Co.
Raybestos-Manhattan, Inc., Pa.
Reinhold Engrg. & Plastics Co.
Republic Aviation Corp.
Resistoflex Corp.
Rex Corp., The, Sub.-American Enka
Rogers Corp.
Russell Reinforced Plastics Corp.
Joseph T. Ryerson & Son, Inc.
Scientific-Atlanta, Inc.
Silicone Insulation, Inc.
Skydyne, Inc.
Spaulding Fibre Co., Inc.
Specialty Engrg. & Electronics Co.
Stevens Products, Inc.
Stratos, Div.-Fairchild Engine & Airplane Corp.
Swedlow Inc.
H. I. Thompson Fiber Glass Co.
Topper Mfg. Co., Inc.
Trionics Corp.
United States Chemical Milling Corp.
United States Rubber Co.
Veet Industries
Waterbury Companies, Inc.
Wenzlau Engrg. Co.
Western Tool & Mfg. Co., The
Zippertubing Co., The

RELAYS

a. **Audio Operated**
b. **Capacitance**
c. **Coaxial**
d. **Contact**
e. **Cross-Bar**
f. **D Arsonval**
g. **Differential**
h. **Electronic, Resistance Activated**
i. **Frequency Selective**
j. **High Voltage**
k. **Impulse**
l. **Keying & Break-In**
m. **Latching**
n. **Mercury**
o. **Meter**
p. **Microwave**
q. **Overfrequency**
r. **Overload**
s. **Overvoltage & Undervoltage**
t. **Photoelectric**
u. **Plate Circuit**
v. **Polarized**
w. **Power**
x. **Reverse Current**
y. **RF**
z. **Rotary**
a1. **Sensitive**
b1. **Sequence**
c1. **Stepping**
d1. **Subminiature**
e1. **Synchronizing, Transfer**
f1. **Telephone**
g1. **Temperature Compensated**
h1. **Thermal**
i1. **Thermostatic Delay**
j1. **Time Delay**
k1. **Timing**
l1. **Under Frequency**
m1. **Vacuum Contact**
n1. **Vibrating Reed Type**

A-G-A Div., Elastic Stop Nut Corp. of America, j-1.
Acro Div., Robertshaw-Fulton Controls, w.
Acromag Inc., x.
Advance Relays, Electronics Div., Elgin National Watch Co., c, d, e, i, k, l, q, t, v, y, z, b-1, c-1, e-1, g-1, h-1, i-1.
Advanced Electronics, Inc., a.
Advanced Products Co., The, j-1, k-1.
Ad-Yu Electronics Lab., Inc., a-1.
Aerolite Electronics Corp., a-1.
Aircom Inc., p.
All American Engrg. Co., j-1.
Allied Control Co., Inc., c, g, j thru n, r, s, u thru x, z, a-1, d-1, f-1, g-1, j-1, k-1, m-1.
Alto Scientific Co., Inc., j-1, k-1.
American Aeroparts, x, i-1, j-1, k-1.
American Instrument Co., Inc., a-1, j-1.
American Machine & Foundry Co., Government Products Group
American Machine & Foundry Co., Greenwich
Arrow-Hart & Hegeman Electric Co., The, d, m, r, s, w, a-1, h-1, i-1, j-1.
Artisan Electronics Corp., a, d, g, j thru m, r thru x, z, a-1, b-1, c-1, g-1, j-1.
Assembly Products, Inc., f, o, s, a-1.
Automatic Electric Sales Corp., d, k, m, n, v, b-1, c-1, f-1, j-1, k-1.
Automatic Switch Co., g, j, m, p, r, w, x, a-1, j-1.
Autotron, Inc., t.
Babcock Radio Engrg., Inc., a-1, d-1.
Babcock Relays, Inc., b, d, g, m, n, r, s, u thru x, z, a-1, d-1, e-1, f-1.
Barber-Colman Co., i, m, v, a-1.
Barker Sales Co., e, k thru p, a-1 thru d-1, f-1, g-1, j-1.
Baso Inc., a-1, d-1, g-1, j-1.
James G. Biddle Co., i, n-1.
Branson Corp., r, s, u, v, w, z, d-1, g-1 thru k-1.
Bristol Co., The, g, v, a-1, d-1, g-1, m-1, n-1.
Central Electronic Mfrs., Div.-Nuclear Corp. of America, m-1.
C. P. Clare & Co., k thru n, u, v, a-1 thru d-1, f-1, j-1.
Clark Electronic Labs., d-1.
Coils-Electronics, b.
Comar Electric Co., k, l, m, t, w, a-1, d-1, f-1, j-1.
Control Engrg. Co., Div.-Jervis B. Webb Co., j-1.
Couch Ordnance, Inc., u, z, a-1, d-1.
Cramer Controls Corp., j-1, k-1.
James Cunningham Son & Co., Inc., a.
Curtiss-Wright Corp., Electronics Div., h-1, i-1, j-1, k-1.
Curtiss-Wright Electronics Div., IMI Branch, k, m, w, d-1, j-1, k-1.
Cutler-Hammer Inc., d, g, h, r, w, a-1, b-1, j-1, k-1.
Datascan Inc., h.
Delco-Remy Div., General Motors Corp., m, w, z, d-1.
Destron Co., j-1, k-1.
Douglas Microwave Co., Inc., p.
Durakool, Inc., n, j-1, k-1.
Durant Mfg. Co., t.
Ebert Electronics Corp., h, m, n, q, w, a-1, j-1, m-1.
Electro Tec Corp., d, w, z, z-1.
Electro-Mechanical Products Co., g, r, x.
Electro-Mechanical Specialties Co., Inc., d, e, g, h, i, k, m, q, s, u, v, w, z, b-1, c-1, d-1, g-1, j-1.
Electronic Control Corp., h, r, t, j-1.
Electronic Research Associates, Inc., s.
Electronic Specialty Co., c, q, s, x, d-1, j-1, k-1, l-1.
Electron-Radar Products, n.
Electro-Switch & Controls, Inc., s, v, w, a-1, d-1, f-1, g-1, j-1.
Electro-Tech Equipment Co., f, k, m, n, o, t, w, a-1, thru d-1, f-1, i-1, j-1, k-1.
Elgin Micronics Div.-Elgin National Watch Co., i-1, k-1.
Engrg. Associates, v, f-1, i-1, j-1.
Essex Wire Corp., b, d, e, h, j, k, r, x, a-1, f-1, h-1.
Farmer Electric Products Co., Inc., h.
***FILTORS, INC.**, m, r, w, z, d-1.
Fisher Scientific Co., h.
G-V Controls Inc., i, q, r, s, g-1 thru i-1.
General Automatic Corp., d, g, k, l, m, r, s, u, w, a-1, f-1, g-1, j-1.
General Communication Co., c, p, y.
General Electric Co., Apparatus Sales Div., k, q thru t, w, x, b-1, d-1, g-1, h-1, j-1, k-1, l-1.
Globe Electrical Mfg. Co., d, l, m, u, w, z, a-1, f-1, g-1, j-1.
Gordos Corp., n.
Green Rectifier Co., s.
Guardian Electric Mfg. Co., d, h thru m, q, z, a-1 thru d-1, f-1, h-1, j-1, k-1, l-1.
Gulton Industries, Inc., i.
Gyrex Corp., The, i.
Haledy Electronics Co., d, n, t, w.
Hamilton Watch Co.-Industrial Div., j-1, k-1.
Hamlin, Inc., n, n-1.
Hart Mfg., Co., The, d, h, k, m, v, w, a-1, b-1, d-1.
Hartman Electrical Mfg. Co., The, g, i, k, m, q, r, s, v, w, z, a-1, b-1, d-1, e-1, j-1, k-1, l-1.
***A. W. HAYDON CO., THE**, b-1, j-1, k-1.
Heinemann Electric Co., r, j-1.
Hi-G Inc., z, a-1, d-1, g-1.
Hillburn Electronic Products Co., d, e, j thru m, r, t thru w, a-1 thru d-1, f-1.
Hi-Spec Electronics Corp., j, u, w, a-1.
Hughes Aircraft Co., h-1.
***HYDRO-AIRE CO., DIV.-CRANE CO.**, j-1.
Imtra Corp., m, c-1, f-1.

Industrial Timer Corp., h-1, j-1, k-1.
Iron Fireman Mfg. Co., Electronics Div., k, m, z, a-1, d-1.
ITT-Kellogg, f-1.
Jack & Heintz, Inc., q, r, s, w, x, j-1, l-1.
Jaidinger Mfg. Co., Inc., g, k, m, u, a-1, d-1, j-1, n-1.
Jennings Radio Mfg. Corp., c, r, m-1.
Jordan Electronics, Div.-Victoreen Instrument Co., s, j-1, k-1.
Kaiser Aircraft & Electronics, Div.-Kaiser Industries Corp., b, h, w.
Kurman Electric Co., Div.-Norbute Corp., a, d, e, g, h, j, k, l, p, r thru w, y, a-1, d-1, f-1, j-1.
Land-Air Inc., k, z, b-1, c-1.
Leach Corp., d, g, i thru m, q, r, s, u, v, w, y, z, b-1, d-1, f-1, i-1 thru l-1.
Leaming Engrg., Inc., a.
G. H. Leland, Inc., z, c-1.
Liquidometer Corp., The, a-1.
Luther Mfg. Co., v, d-1.
Magnecraft Electric Co., c, d, e, g, j thru m, r, s, u, w, z, a-1, d-1, f-1, j-1.
Magnetic Devices, Inc., c, m, v, z, a-1.
P. R. Mallory & Co., Inc., a-1, b-1, d-1, k-1.
Marion Instrument Div., c, f, a-1.
Master Specialties Co., b-1, j-1.
Metals & Controls Corp., Spencer Div., q, r, s, h-1, i-1.
Miratel, Inc., a.
Monogram Precision Industries, p.
Motorola Inc., Military Electronics Div., p, y, n-1.
Narda Microwave Corp., The, p.
E. V. Naybor Labs., Inc., r, s, u, w, j-1.
Networks Electronic Corp., i, q, r, s, x, h-1, i-1, l-1.
North Electric Co., e, h, k, l, m, r, s, v, w, z, a-1 thru f-1, j-1, n-1.
Pacific Scientific Co., d-1.
Paragon Electric Co., j-1, k-1.
Penn Keystone Corp., v, a-1, d-1, m-1.
Penta Labs., Inc., m-1.
Peschel Electronics, Inc., h, j.
Phaostron Instrument & Electronic Co., a-1.
Philco Corp., Government & Industrial Div., h thru l, p, y, d-1, f-1, j-1.
Photobell Co., Inc., a, b, h, j, t, j-1, k-1.
Photo-Crystals, Inc., n.
Photomation, Inc., t.
Joseph Pollak Corp., c, d, g, j, p, s, w, a-1, f-1, g-1.
Potter & Brumfield Inc., c, j, l, t thru w, a-1, c-1, d-1, f-1.
Precise Development Corp., h.
Precision Thermometer & Instrument Co., a-1.
Price Electric Corp., c, d, j, l, q, s, u, w, y, z, c-1, d-1, f-1, j-1.
Projects Unlimited Inc., a.
Q. V. S. Inc., a.
Radar Relay, Inc., a-1, d-1.
Raymond Engrg. Lab., Inc., j-1.
Relay Sales Inc., c, d, e, g, j thru n, u thru x, z, a-1 thru d-1, f-1, h-1, j-1, k-1.
Relays, Inc., k, l, s, u, w, x, a-1, d-1, f-1.
Research Appliance Co., h, m-1.
Revere Corp. of America, n-1.
M. H. Rhodes, Inc., j-1.
Rixon Electronics Inc., h.
Safety Electrical Equipment Corp., x.
St. Regis Paper Co., Panelyte Div.
Sealectric Switch & Relay Corp., e, h, w, c-1, f-1.
Sequoia Wire & Cable Co., Div.-Mandrel Industries, Inc., j-1, k-1.
Sigma Instruments, Inc., g, l, m, s thru w, a-1, d-1, g-1.
Simpson Electric Co., f, a.
Standard Electromagnetics, Inc., k, l, m, r, t, u, w, x, z, a-1 thru d-1, f-1, k-1.
Stanley Aviation Corp., c-1.
Stromberg-Carlson Div.-General Dynamics Corp., f-1.
Struthers-Dunn, Inc., j thru n, r, s, u, w, x, y, a-1 thru d-1, h-1 thru k-1, m-1.
Technique Associates Div., Duncan Electric Co., Inc., h-1.
Telectro Industries Corp., a, b, c, u, z.
Telerad Mfg. Corp., p.
Tempo Instrument Inc., s, j-1, k-1.
Terado Co., d, r, a-1.
Textron Corp., j-1.
Thiokol Chemical Corp., y.
Torwico Electronics, Inc., g, i, m, q, s, v, x, a-1, j-1, l-1.
Transco Products, Inc., c, p, y.
Triplett Electrical Instrument Co., f.
George Ulanet Co., h-1, i-1, j-1.
Union Switch & Signal, Div.-Westinghouse Air Brake Co., k, z, d-1.
United Aircraft Products, Inc., g-1 thru j-1.
U. S. Relay Co., d, e, g thru j, m, q, r, t, u, v, y, a-1, b-1, d-1, f-1, g-1, h-1, j-1, k-1, l-1.
United Supply Co.
Vap-Air Aeronautical Products Div., Vapor Heating Corp., d, w.
Varo Mfg. Co., Inc., i, l-1.
Vemaline Products Co., j-1, k-1.
Victory Engrg. Corp., b, h, l, a-1, d-1, g-1, h-1, j-1.
Video Instruments Co., Inc., n.
Wallace & Tiernan Inc., i.
Waltham Engrg. Corp., j-1.
Webcor, Inc., Government Div., a-1, b-1, c-1, j-1.
Weston Instruments, Div.-Daystrom, Inc., f, g, j, m, o, s, t, v, w, a-1, d-1, g-1.
Wheeler Electronic Corp., Sub.-Speery Rand Corp., n.

Wheelock Signals Inc., c, l, m, r, v, w, a-1, d-1, f-1.
G. C. Wilson & Co., j-1.
Winatic Corp., The, d, m, w, f-1, k-1.
Worner Electronic Devices, t.
Zenith Electric Co., j-1, k-1.

RELEASE MECHANISMS

American Machine & Foundry Co., Government Products Group
Applied Design Co.
Beckman & Whitley, Inc., Missile Products Div.
Burklyn Co.
Capewell Mfg. Co.
Components Corp.
Consolidated Diesel Electric Corp.
Cooper Development Corp., Sub.-Marquardt Aircraft Co.
Cornell Deep Drawing Co., Div.-Lanes Industries Corp.
Dumont Aircraft Fitting Co.
Electro-Mechanical Products Co.
Hardman Tool & Engrg. Co.
Hicks Corp., The
Holex, Inc.
M. W. Kellogg Co., The
H. Koch & Sons
***MC CORMICK SELPH ASSOCIATES**
Natl. Water Lift Co., Div.-Cleveland Pneumatic Industries, Inc.
Newbrook Machine Corp.
Pacific Scientific Co.
Piasecki Aircraft Corp.
Raymond Engrg. Lab., Inc.
Reinhold Engrg. & Plastics Co.
Republic Aviation Corp.
M. H. Rhodes, Inc.
Robot Industries Inc.
Stanley Aviation Corp.
Talley Corp., The
Telectro Industries Corp.
Vard Inc.
Variety Aircraft Corp.
Washington Technological Associates Inc.
Wilks Precision Instrument Co., Inc.
Winzen Research Inc.

REMOTE CONTROL SYSTEMS
See SYSTEMS, REMOTE CONTROL

REMOTE PICKUP, AUDIO

Dresser Industries, Inc.
Electronic Applications, Inc.
Graflex Inc.
Perry Plastics, Inc.
Philco Corp., Government & Industrial Div.
Telectro Industries Corp.

REMOTE SOUND CONTROLLERS
See CONTROLLERS, REMOTE SOUND

REPEATERS, MICROWAVE

Budelman Electronics Corp.
Centronix Inc.
DBM Research Corp.
ITT Labs.
Instruments for Industry, Inc.
Kaiser Aircraft & Electronics, Div.-Kaiser Industries Corp.
Motorola Inc., Military Electronics Div.
Philco Corp., Government & Industrial Div.
Telerad Mfg. Corp.

REPEATERS, PASSIVE, MICROWAVE

Centronix Inc.
DBM Research Corp.
Hydra-Power Corp.
ITT Labs.
Litton Industries, Maryland Div.
Motorola Inc., Military Electronics Div.
Philco Corp., Government & Industrial Div.
Tower Construction Co.

RESERVOIRS, HYDRAULIC
See HYDRAULIC RESERVOIRS

RESERVOIRS, HYDRAULIC SYSTEMS

***AIRESEARCH MFG. CO., DIV.-THE GARRETT CORP.**
American Bosch Arma Corp.
American Machine & Foundry Co., Government Products Group
Astronautics Engrg. Co.
Bendix-Pacific Div., Bendix Aviation Corp.
Colonial Aircraft Corp.
Cooper Development Corp., Sub.-Marquardt Aircraft Co.
Dumont Aircraft Fitting Co.
Eastern Industries Inc.
Greer Hydraulics, Inc.
Hannifin Co., Div.-Parker-Hannifin Corp.
Haskel Engrg. & Supply Co.
Hydrodyne Corp., Skinner Seal Div.
Kahn & Co., Inc.
Kaiser Aircraft & Electronics, Div.-Kaiser Industries Corp.
Mercury Tool & Mfg. Corp.
Natl. Water Lift Co., Div.-Cleveland Pneumatic Industries, Inc.
Norris-Thermador Corp.
Portland Copper & Tank Works Inc.
Precision Sheet Metal, Inc.
Pressed Steel Tank Co.
Racine Hydraulics & Machinery Inc.
Red Lion Cabinet Co., Redco Tool Div.
***RHEEM MFG. CO., DEFENSE & TECHNICAL PRODUCTS DIV.**
Ronson Hydraulic Units Corp.
Rucker Co., The
Santa Anita Engrg. Co.
Sargent Engrg. Corp.
Stainless Steel Products, Inc.
Stratos, Div.-Fairchild Engine & Airplane Corp.
United Aircraft Products, Inc.
Universal Metal Products Inc.
Vickers Inc., Div.-Sperry Rand
Vickers Inc., Marine & Ordnance Dept., Machinery Hydraulics Div.
Watertown Div., The New York Air Brake Co.
Wise Aerodraulics, Inc.

RESERVOIRS, PNEUMATIC

American Machine & Foundry Co., Government Products Group
Associated Engineers, Inc.
Bendix-Pacific Div., Bendix Aviation Corp.
Bendix Utica Div., Bendix Aviation Corp.
Components Corp.
Cooper Development Corp., Sub.-Marquardt Aircraft Co.
Cornelius Co., The, Aero Div.
Dumont Aircraft Fitting Co.
Haskel Engrg. & Supply Co.
Hydrodyne Corp., Skinner Seal Div.
Kahn & Co., Inc.
Kaiser Aircraft & Electronics, Div.-Kaiser Industries Corp.
Walter Kidde & Co., Inc., Aviation Div.
Natl. Water Lift Co., Div.-Cleveland Pneumatic Industries, Inc.
Pressed Steel Tank Co.
***RHEEM MFG. CO., DEFENSE & TECHNICAL PRODUCTS DIV.**
Ronson Hydraulic Units Corp.
Rucker Co., The
Santa Anita Engrg. Co.
Stratos, Div.-Fairchild Engine & Airplane Corp.
United Aircraft Products, Inc.

RESISTANCE PYROMETERS
See PYROMETERS, RESISTANCE

RESISTANCE THERMOMETERS
See THERMOMETERS, RESISTANCE

RESISTANCE THERMOMETER BULBS

***ARNOUX CORP.**
Avnet Corp.
Bristol Co., The
Fisher Scientific Co.
Hallikainen Instruments
Illinois Testing Laboratories, Inc.
Leeds & Northrup Co.
***LEWIS ENGRG. CO., THE**
Minneapolis-Honeywell Regulator Co., Industrial Div.
Minneapolis-Honeywell Regulator Co., Industrial Product Group
Rosemount Engrg. Co.
Arthur C. Ruge Associates, Inc.
Thermo Electric Co., Inc.
Trans-Sonics, Inc.
United Control Corp.

RESISTORS
a. Boroncarbon
b. Composition, Variable
c. Carbon Film
d. Decade
e. Deposited Carbon
f. Encapsulated
g. Film
h. Fixed Composition
i. Fixed Wire-Wound
j. Fuse
k. Glass
l. High Frequency
m. High Temperature
n. High Voltage
o. Industrial, Fixed
p. Miniature Variable
q. Negative Temperature Coefficient
r. Photo Sensitive
s. Plug-in-Tube
t. Precision
u. Printed Circuit
v. Printed Strip
w. Rectilinear
x. Silicone
y. Subminiature
z. Tape
a1. Temperature Sensitive
b1. Variable Composition
c1. Variable, Miniature
d1. Variable Wire Wound
e1. Wire Wound

Ace Coil & Electronics Co., i, e-1.
Adept Industries Inc., u, v.
Aero Electronics Corp., c-1, d-1.
Aerovox Corp., c thru f, t, e-1.
Allies Products Corp., e, f, q, t.
Analogue Controls, Inc., c-1, d-1.
***ARNOUX CORP.**, a-1.
Avnet Corp., i.
Axel Electronics, f, i, m, q, t, u, a-1, e-1.
Axler Associates Inc., g.
Bourns Labs., Inc., b, c, f, b-1, c-1, d-1.
Bradford Components, Inc., f, i, j, l thru o, q, t, y, d-1, e-1.
Carborundum Co., Refractories Div., f, h, m, y.
Centralab, Div.-Globe-Union, b, e, f, h, m, p, t, u, w, y, b-1 thru e-1.
Cinema Engrg., f, t, y, e-1.
Clark Electronic Labs.
Clarostat Mfg. Co., Inc., b thru g, i, j, m thru p, t, u, b-1 thru e-1.
Computer Instruments Corp., b, w, b-1.
Continental Carbon, Div.-Wirt Co., e thru i, o, p, q, t, d-1, e-1.
Corning Glass Works, f, g, k thru o, t, u.
Dale Products, Inc., a, c, e, f, g, i, m, n, o, t, x, y, e-1.
Daven Co., The, f, g, i, k, m, t, x, y, a-1, e-1.
Eastman Kodak Co., r.
Electra Mfg. Co., c, e, f, g, l, m, q, t, u, y.
Electro Instruments, Inc., d, f, i, t.
Electromath Corp., c-1, d-1.
Electro-Measurements Inc., d, i, t, e-1.
Electro-Mec Lab. Inc., i, d-1.
Electronic Applications, Inc., c, e, m, n.
Erie Resistor Corp., c, e thru h, n, t, y.
Ferroxcube Corp. of America, q, a-1.
Fidelity Amplifier Co., d.
Filmohm Corp., g, k, l, m, u, v, z.
Ford Instrument Co., Div.-Sperry Rand Corp., e-1.
Fugle-Miller Labs. Inc., i, t, e-1.
GAR Mfg. Corp., e-1.
General Cement Mfg. Co., Div.-Textron, Inc., c, e.
General Electric Co., Apparatus Sales Div., i, o, d-1, e-1.
General Electric Co., Metallurgical Products Dept., a-1.
General Transistor Corp., i, t, u, e-1.
Globar Plant, Refractories Div.-The Carborundum Co., h, l thru o, q, y, a-1.
Gray Instrument Co., d, i, e-1.
Gunnar Laboratories, e-1.
Haveg Industries, Inc., m, x.
Helipot Div.-Beckman Instruments Inc., i, t, e-1.
Humphrey, Inc., w, c-1, d-1, e-1.
Huntington Rubber Mills, x.
Industrial Instruments Inc., d.
Instrument Resistors Co., d, i, l, m, o, t, y, a-1, e-1.
International Resistance Co., a, b, c, e thru q, t, u, x, b-1, d-1, e-1.
Joclin Mfg. Co., z.
Julie Research Labs., Inc., f, t, e-1.
Key Resistor Corp., c, e, f, g, l, m, t, u, y.
Keystone Carbon Co., q.
Lectrohm, Inc., i, j, l, n, u, x, a-1, d-1, e-1.
Leeds & Northrup Co., d, t.
Legris Co., a thru z, a-1 thru e-1.
Liss Products, Inc.
P. R. Mallory & Co. Inc., c, h, i, l, m, o, p, u, w, y, c-1, d-1, e-1.
Mepco, Inc., c thru g, i, o, q, t, u, x, y, e-1.
Miller Electro-Research Labs., d, t.
Minneapolis-Honeywell Regulator Co., Industrial Product Group, i, l, n, o, t, a-1, e-1.
Minnesota Mining & Mfg. Co., a-1.
Mullenbach Div.-Electric Machinery Mfg. Co., i, o, e-1.
National Beryllia Corp., m.
National Coil Co., e-1.
Networks Electronic Corp., k, a-1.
Non-Linear Systems, Inc., f, i, t.
Ohio Carbon Co., The, h, i, j.
Phaostron Instrument & Electronic Co., c.
Precision, Inc., f, i, t, u, y, a-1, e-1.
Precision Resistor Co. Inc., d, f, i, j, n, o, t, u, x, y, a-1, e-1.
Pyrofilm Resistor Co., Inc., c, e, f, g, k thru n, t, y.
R. C. L. Mfg. Co., f, i, t, e-1.
Reon Resistor Corp., d, f, i, l, m, q, s thru v, a-1, b-1, c-1, e-1.
Resistors, Inc., i, d-1, e-1.
Rinco, Inc., i, d-1, e-1.
Rogers Corp., u.
Rosemount Engrg. Co., a-1.
Arthur C. Ruge Associates, Inc., a-1.
Sage Electronics Corp., e-1.
Shallcross Mfg. Co., d, f, i, n, o, t, u, e-1.
Shallite, Inc., f, i, t, u, y.
Spectrol Electronics Corp., c-1, d-1, e-1.
Stackpole Carbon Co., b.
States Co., The, q.
H. W. Sullivan Ltd., d, t.
Sun Electric Corp., Aeronautical Div., a.
Technology Instrument Corp., a thru g, i, m, n, p, q, s, t, u, w, y, c-1, d-1, e-1.
Tel-Labs, Inc., d, f, i, o, q, t, u, x, a-1, e-1.
Tepro Electric Corp., i, t, x, y, e-1.
Topper Mfg. Co., Inc., m.
Trionics Corp., y.
Tucson Instrument Corp., i, p, t, c-1, d-1, e-1.
United Mineral & Chemical Corp., c, e, d-1, e-1.
U. S. Science Corp., Div.-Topp Industries, Inc., p, w, d-1.
Victory Engrg. Corp., q, a-1.
Welwyn International Inc., c thru g, i, l thru o, q, t, y, d-1, e-1.
Weston Instruments, Div.-Daystrom, Inc., g, i, n, t.

RESOLVERS

Accessory Products Co., Div.-Textron Inc.
Airdome Parts Co.
American Bosch Arma Corp.
American Electronics, Inc.
American Electronics, Incorporated
American Electronics, Inc.-Instrument Div.
Arma Div., American Bosch Arma Corp.
Beckman Instruments, Inc., Berkeley Div.
Bendix Aviation Corp., Eclipse-Pioneer Div.
Chalco Engrg. Corp.
Clifton Precision Products Co., Inc.
Computer Instruments Corp.
Control Data Corp.
Dalmotor Div., Yuba Consolidated Industries, Inc.
Daystrom Transicoil Div., Daystrom Inc.
Diehl Mfg. Co.
Electro Precision Corp.
Hamilton Watch Co.-Industrial Div.
Induction Motors Corp.
***KEARFOTT CO., INC.**
Ketay Dept., Norden Div., United Aircraft Corp.
Land-Air Inc.
Lear, Inc.
Lear, Inc., Grand Rapids Div.
Luther Mfg. Co.
Milgo Electronic Corp.
Networks Electronic Corp.
Power-Tronic Systems Inc.
Reeves Instrument Corp.
Scientific-Atlanta, Inc.
Singer Mfg. Co., The, Military Products Div.
United Mineral & Chemical Corp.
Western Gear Corp.
Weston Instruments, Div.-Daystrom, Inc.

RESTRICTORS, HYDRAULIC SYSTEMS

Astronautics Engrg. Co.
Benbow Mfg. Corp.
Bendix-Pacific Div., Bendix Aviation Corp.
Carruthers & Fernandez, Inc.
Clary Dynamics
Haskel Engrg. & Supply Co.
Walter J. Hyatt Co., The
Integral Corp.
Interstate Engrg. Corp.
Kaiser Aircraft & Electronics, Div.-Kaiser Industries Corp.
Kemp Aero Products
Newbrook Machine Corp.
Ozone Metal Products Corp.
Pneu-Hydro Valve Corp.
Ronson Hydraulic Units Corp.
Sargent Engrg. Corp.
A. U. Stone & Co., Inc.
Tactair Valve Div.-Aircraft Products Co.
United Aircraft Products, Inc.
Vickers Inc., Marine & Ordnance Dept., Machinery Hydraulics Div.
Vinson Mfg. Co. Inc.

RETRACTING, MECHANISM UNITS

Actuator Products Div., Geartronics Corp.
American Machine & Foundry Co., Government Products Group
Bendix Utica Div., Bendix Aviation Corp.
Clary Dynamics
Colonial Aircraft Corp.
Electro-Mechanical Products Co.
Haskel Engrg. & Supply Co.
Hoover Electric Co.
Kaiser Aircraft & Electronics, Div.-Kaiser Industries Corp.
Kemp Aero Products
Lear, Inc.
***McCORMICK SELPH ASSOCIATES**
Menasco Mfg. Co.
Natl. Water Lift Co., Div.-Cleveland Pneumatic Industries, Inc.
Newbrook Machine Corp.
Piasecki Aircraft Corp.
Sargent Engrg. Corp.
Smith-Morris Corp.
Wise Aerodraulics, Inc.

RETRACTORS, LANDING GEAR

Bendix Utica Div., Bendix Aviation Corp.
Clary Dynamics
Colonial Aircraft Corp.
Haskel Engrg. & Supply Co.
Hoover Electric Co.
Kanarr Corp.
Kemp Aero Products
Lear, Inc.
Menasco Mfg. Co.
Natl. Water Lift Co., Div.-Cleveland Pneumatic Industries, Inc.
Ronson Hydraulic Units Corp.
Sargent Engrg. Corp.
Smith-Morris Corp.
United Mfg. Co., The
Weston Hydraulics Ltd.-Sub., Borg-Warner Corp.
Wise Aerodraulics, Inc.

REVERBERATION UNITS

Ling Electronics, Inc.

RF INTERFERENCE EQUIPMENT
See INTERFERENCE EQUIPMENT, RF

RF PERMEATERS
See PERMEATERS, RF

RHEOSTATS

James G. Biddle Co.
Clark Electronic Labs.
Clarostat Mfg. Co., Inc.
Components Corp.
Cutler-Hammer Inc.
Dejur-Amsco Corp., Electronic Sales Div.
Electro-Tech Equipment Co.
Foredom Electric Co., Inc.
General Electric Co., Apparatus Sales Div.
Gunnar Laboratories
P. R. Mallory & Co. Inc.
National Spectrographic Labs., Inc.
Riverbank Labs., Dept.-Engrg.
Superior Electric Co., The
Technology Instrument Corp.

RIGID SHAFTS
See SHAFTS, RIGID

RIGID WAVEGUIDES
See WAVEGUIDES, RIGID

RINGS

a. Carbon Packing
b. Clamping
c. Collector
d. Expansion
e. Hydraulic Back-Up
f. Oil Sealing
g. Retainer
h. Scraper
i. Sealing
j. Shock Absorber
k. Slip
l. Slip & Brush Assemblies
m. Special

Ace Products Co., g, h.
Advance Carbon & Electric Mfg. Co., a, k, l.
Advanced Products Co., The, f, i.
Aero Bolt & Screw Co., Inc., e, f, h, i.
Airflyte Electronics Co., k, l.
All Specs Corp., e thru i.
Allied Plastics Supply Corp., a thru g, i thru m.
Alloys Unlimited Inc., m.
Alpitec, Inc.
American Aeroparts, j.
American Standard Products, Inc., m.
American Welding & Mfg. Co., The, m.
Atlantic Instrument Corp., Sub.-American Electronics, Inc., k, l, m.
Auburn Mfg. Co., The, e, f, i, j.
Augat Brothers, Inc., b.
Bacon Industries, Inc., m.
Ball Machine Products Co., The, g.
California Aircraft Products
California Spring Co., Inc., m.
Capewell Mfg. Co., m.
Capital City Mfg. Co., f, g, m.
Carbone Corp., The, a, l.
Carmac Aviation
Cartriseal Corp., i.
Century Fasteners Corp., e thru h.
Chemplast, Inc., h.
Chicago Gasket Co., m.
Chicago Rawhide Mfg. Co., e, f, i.
Christie Machine Works, m.
Cleveland Welding Div.-American Machine & Foundry Co., m.
Components Corp., f, i.
Computer Instruments Corp., b, k.
Continental Rubber Works, f.
C. Lee Cook Co., Airtomic Products Div., a, d, e, f, h, i, m.
Corbin Products Div., f thru i, m.
Crystal-X Corp., g, i, m.
Curtiss-Wright Corp.-Wright Aeronautical Div., c, d, f thru i, m.
Dockendorff & Co. Inc., b, m.
Dresser Mfg. Div., Dresser Industries, Inc., a, b, g, i, m.
Eaton Mfg. Co., Reliance Div., b, g.
Edgewater Steel Co., m.
Electric Heater Co., The, m.
Electrical Insulation Co., Inc., m.
Electro Development Co., k, l.
Electro Tec Corp., c, k, l, m.
Electro-Mechanical Products Co., c, k, l.
Emerson Plastics Corp., e, f, i.
Engelhard Industries Inc., D. E. Makepeace Div., c, k, l.
Federal Machine Co. Inc., m.
Fletcher Mfg. Co., Inc., The, c.
Flexrock Co., e.
Fluorocarbon Co., The, e, h, i, k.
General Gasket Inc., e, f, i, m.
Gibson Electric Co., c, k.
Goshen Rubber Co., Inc., f, i.
Graphite Metallizing Corp., a, c, f, i, k, l.
Halogen Insulator & Seal Corp., e, g, i.
Haskel Engrg. & Supply Co., e, f, h, i.
Helwig Carbon Products, Inc., a.
E. F. Houghton & Co., e, h, i.
Huntington Rubber Mills, g.
Hydrodyne Corp., Skinner Seal Div., a, f, i, j.
Industrial Retaining Ring Co., g.
Johns-Manville, a, e thru i, m.
Kanarr Corp., m.
King Fifth Wheel Co., m.
Ladish Co., m.
Lucas Aircraft Supply Co., g, i.
Machine Products Div., New Haven Trap Rock Co., b, f, g, i, m.
Magnetic Seal Corp., f, i.
Mercury Tool & Mfg. Corp., b, c, e, g.
Metals & Controls Corp., General Plate Div., c, k, l.
Minnesota Rubber Co., f, h, i, m.
Moran Co., i, m.
Morganite, Inc., a, f, i, k, l.
National Utilities Corp., b.
Nippert Electric Products Co., The, k.
Ohio Carbon Co., The, a, f, i.
Oil-Dyne, Inc., e, f.
Pacific Cut Washer Co., f, i, m.
Pacific Scientific Co., k, l, m.
Parker Seal Co., Div.-Parker-Hannifin Corp., i.
Penn Fibre & Specialty Co., Inc., e, f, g, i, j, l.
Penn-Michigan Mfg. Corp., c.
Research Development Mfg. Inc., g, m.
Roberts Toledo Rubber Co., The, f, g, i.
Robinson Technical Products, Inc., j.
Rogers Corp., e.
Milton Ross Metals Co., The, k, l, m.
Rubbercraft Corp. of California, f, j, m.
Ryan Aeronautical Co., c.
St. Marys Carbon Co., a, f, i, l.
Schaevitz Engrg., j, k.
Seamless Products Co., Inc., g.
Simonds Saw & Steel Co., g, h, k, m.
Skycraft Tool Engrg. Co., e, h, m.
Slip Ring Co. of America, c, k, l.
Smith-Morris Corp., b, c, g, i.
Sparta Mfg. Co., Div.-U.S. Ceramic Tile Co., e, f, i, m.
Stackpole Carbon Co., a, i, k, l.
Standard Metals Corp., c.
Stanley-Judd Div.-The Stanley Works, b, c, d, g thru, k, m.
Staver Co., Inc., The, b, e, i, m.
Stein Seal Co., a, f, i.
Teiner Engrg. Corp., b, i.
Thermech Engrg. Corp., e thru i.
Turbo Products, Inc., e, f, g, i, m.
United Aircraft Products, Inc., e, f, i, m.
U. S. Hammered Piston Ring Co., Inc., d thru i, m.
U. S. Science Corp., Div.-Topp Industries, Inc., k.
Veet Industries, m.
Walbar Machine Products Inc., f, i.
Waldes Kohinoor, Inc., g, m.

RIVETS, BLIND

Adam Metal Supply Inc.
American Aeroparts
Auto-Valve Inc.
Best Aircraft Corp.
Century Fasteners Corp.
Collins Engrg. Corp.
Deutsch Fastener Corp.
B. F. Goodrich Aviation Products
Hi-Shear Rivet Tool Co.
Huck Mfg. Co.
Geo. E. Koercher Co.
Lucas Aircraft Supply Co.
National Screw & Mfg. Co., The
Southco Div., South Chester Corp.
Star Expansion
***TOWNSEND CO., CHERRY RIVET DIV.**
United Shoe Machinery Corp., Ordnance Dept.

RIVETS, EXPLOSIVE

American Aeroparts
Atlantic Research Corp.

ROCKET ENGINE HIGH TEMPERATURE MATERIALS

***BENDIX PRODUCTS DIV., BENDIX AVIATION CORP.**

ROCKET FUELS, SOLID
See SOLID ROCKET FUELS

ROCKET LAUNCHING DEVICES

ACF Industries Inc.
Accessory Products Co., Div.-Textron Inc.
Aerojet-General Corp.
Aerolab Development Co.
Aeronca Mfg. Corp.
Aeroscience, Inc.
Aircraft Armaments, Inc.
Alco Products, Inc.
American Car & Foundry, Div.-ACF Industries, Inc.
American Machine & Foundry Co., Government Products Group
Apex Reinforced Plastics, Div.-White Sewing Machine Corp.
Astrodyne, Inc.
Astronautics Engrg. Co.
Atlantic Research Corp.
Bell Aircraft Corp., Niagara Frontier Div.
E. W. Bliss Co.
Bridgeport Brass Co.
Champion Co., The
Cleveland Pneumatic Industries, Inc.
Cooper Development Corp., Sub.-Marquardt Aircraft Co.
Curtiss-Wright Corp., Santa Barbara Div.
Diversey Engrg. Co.
Dynamic Devices, Inc.
Emerson Electric Mfg. Co., The, Electronics & Avionics Div.

Federal Machine Co. Inc.
Gabriel Co., The–Talco Engrg. Co. Div.
G. W. Galloway Co.
General Electric Co., Missile & Space Vehicle Dept.
Goodyear Aircraft Corp.
Hardman Tool & Engrg. Co.
Holex, Inc.
Hughes Tool Co., Aircraft Div.
Jack & Heintz, Inc.
Kaiser Aircraft & Electronics, Div.-Kaiser Industries Corp.
M. W. Kellogg Co., The
Walter Kidde & Co., Inc., Aviation Div.
Land-Air Inc.
Longren Aircraft Co., Inc.
Lundy Mfg. Corp.
W. L. Maxson Corp., The
***MIRAX CHEMICAL PRODUCTS CORP., ELECTRO-MECHANICAL PRODUCTS DIV.**
Monogram Precision Industries
Newbrook Machine Corp.
Northrop Corp., The, Nortronics Div.
Ordnance Div.-Food Machinery & Chemical Corp.
Piasecki Aircraft Corp.
Edw. Renneburg & Sons Co.
Republic Aviation Corp.
***RHEEM MFG. CO., DEFENSE & TECHNICAL PRODUCTS DIV.**
Rohm & Haas Co., Redstone Arsenal Research Div.
Stanley Aviation Corp.
Tapco Group, Thompson-Ramo-Wooldridge Inc.
Thiokol Chemical Corp.
Trailmobile Inc.
Universal Moulded Products Corp.
Vard Inc.
Washington Technological Associates Inc.
Waste King Corp., Technical Products Div.
Welded Construction Inc.
Western Gear Corp.
Wheland Co., The

ROCKETS

Aerojet-General Corp.
Aerolab Development Co.
Alco Products, Inc.
American Machine & Foundry Co., Government Products Group
American Rocket Co.
Arde-Portland, Inc.
Astrodyne, Inc.
Atlantic Research Corp.
***AVCO MFG. CORP., CROSLEY DIV.**
Bell Aircraft Corp., Niagara Frontier Div.
Brooks & Perkins, Inc.
Cooper Development Corp., Sub.-Marquardt Aircraft Co.
Curtiss-Wright Corp.-Wright Aeronautical Div.
Diversey Engrg. Co.
Dynamic Devices, Inc.
Gabriel Co., The–Talco Engrg. Co. Div.
General Electric Co., Missile & Space Vehicle Dept.
Hercules Powder Co.
Hughes Tool Co., Aircraft Div.
M. W. Kellogg Co., The
***McCORMICK SELPH ASSOCIATES**
Norris-Thermador Corp.
Northrop Corp., The, Nortronics Div.
Olin Mathieson Chemical Corp., Energy Div.
Reaction Motors Div., Thiokol Chem. Corp.
Red Lion Cabinet Co., Redco Tool Div.
***REDEL INC.**
Republic Aviation Corp.
Special Projects Lab., Food Machinery & Chemical Corp.
Stanley Aviation Corp.
Thiokol Chemical Corp.
Universal Moulded Products Corp.
Veet Industries

ROD END BEARINGS

American Aeroparts
Bearing Inspection, Inc.
Century Fasteners Corp.
Collins Engrg. Corp.
Curtiss-Wright Corp.-Wright Aeronautical Div.
Dockendorff & Co. Inc.
Freeman Co., The
Mercury Tool & Mfg. Corp.
Raway Bearing Co., Inc.
Southwest Products Co.

ROLLED PRINTED CIRCUIT COPPER STRIPS

***REDEL INC.**

ROTATORS

All Products Co.
Antlab Inc.
Atlas Precision Products Co.
Cornell-Dubilier Electric Corp.
Crown Controls Co., Inc.
General Devices, Inc.
Hoover Electric Co.
H. F. Johnson Co.
Land-Air Inc.
***RHEEM MFG. CO., DEFENSE & TECHNICAL PRODUCTS DIV.**
Robot Industries Inc.
Talley Corp., The
Theta Instrument Corp.
Western Gear Corp.
Wind Turbine Co.

ROTOR ASSEMBLIES, GAS TURBINE ENGINE

American Machine & Foundry Co., Government Products Group
Christie Machine Works
Curtiss-Wright Corp., Santa Barbara Div.
Curtiss-Wright Corp., Wright Aeronautical Div.
Dresser Industries, Inc.
M. W. Kellogg Co., The
Kelsey-Hayes Co.
Merz Engrg., Inc.
Solar Aircraft Co.
Talley Corp., The
Tapco Group, Thompson-Ramo-Wooldridge Inc.
Turbo Products, Inc.
Veet Industries

ROTOR CASTINGS

American Aeroparts
American Brake Shoe Co.
Astronautics Engrg. Co.
Celco, Constantine Engrg. Labs. Co.
Curtiss-Wright Corp.-Wright Aeronautical Div.
Dresser Industries, Inc.
Kolcast Industries, Div.-Thompson Ramo Wooldridge Inc.

ROTORS

Astronautics Engrg. Co.
Celco, Constantine Engrg. Labs. Co.
Christie Machine Works
Crown Controls Co., Inc.
Curtiss-Wright Corp.-Wright Aeronautical Div.
Dresser Industries, Inc.
Hoover Electric Co.
Merz Engrg., Inc.
Heinz Mueller Eng. Co. Inc.
National Pneumatic Co., Inc., Holtzer-Cabot Div.
Parker-Hartford Corp., The
Piasecki Aircraft Corp.
Talley Corp., The
Tapco Group, Thompson-Ramo-Wooldridge Inc.
Veet Industries

RUDDERS

Brooks & Perkins, Inc.
Colonial Aircraft Corp.
Continental Can Co., Inc.
Haveg Industries, Inc.
Intercontinental Mfg. Co., Inc.
Jarvis Corp.
Javelin Aircraft Co. Inc.
Kaiser Aircraft & Electronics, Div.-Kaiser Industries Corp.
***LAVELLE AIRCRAFT CORP.**
Longren Aircraft Co., Inc.
Monogram Precision Industries
Narmco Mfg. Co.
Piasecki Aircraft Corp.
Precision Sheet Metal, Inc.
***RHEEM MFG. CO., DEFENSE & TECHNICAL PRODUCTS DIV.**
Ryan Aeronautical Co.
Santa Anita Engrg. Co.
Twin Coach Co., Aircraft-Missiles
Wheland Co., The
Winder Aircraft Corp. of Florida

RUNNING GEAR SYSTEMS
a. Air-Borne Trailers
b. Missile Launchers
c. Missile Refuelers

***NEWAY EQUIPMENT CO.**

SAFETY EQUIPMENT

Air Reduction Sales Co., Div.-Air Reduction Co., Inc.
***AIRESEARCH MFG. CO., DIV.-THE GARRETT CORP.**
Ampco Metal, Inc.
Apex Reinforced Plastics, Div.-White Sewing Machine Corp.
Aro Equipment Corp.
***AVCO MFG. CORP., CROSLEY DIV.**
Aviation Textile Associates
Capewell Mfg. Co.
David Clark Co., Inc.
Cooper Industries, Inc.
Davis Instruments
Electronic Control Corp.
Ericson Mfg. Co., The
Fisher Scientific Co.
General Scientific Equipment Co.
Gentex Corp.
Hardman Tool & Engrg. Co.
***HAWS DRINKING FAUCET CO.**
Homalite Corp., The
Industrial Tools Mfg. Corp., Sub.-Pendleton Tool Industries, Inc.
Johns-Manville
Julian A. McDermott Corp.
Medical Supply Co.
Micro Switch, Div.-Minneapolis-Honeywell Reg. Co.
Mine Safety Appliances Co.
Pacific Scientific Co.
Reinhold Engrg. & Plastics Co.
Roovers-Lotsch Corp.
Rose Mfg. Co.
Scott Aviation Corp.
Sperry Piedmont Co., Div.-Sperry Rand Corp.
Stanley Aviation Corp.
Washington Technological Associates Inc.
Wintronics

SALT BATHS

American Gas Furnace Co.
***ASSOCIATED TESTING LABS., INC.**
Gardner Laboratory, Inc.
General Electric Co., Apparatus Sales Div.
Hallikainen Instruments
Hevi-Duty Electric Co.
A. F. Holden Co., The
Lindberg Engrg. Co.
Papesch & Kolstad, Inc.
Sargeant & Wilbur Heat Treating Corp.
Temperature Engrg. Corp.

SAPPHIRE CRYSTALS
See CRYSTALS, SAPPHIRE

SATURABLE REACTORS
See REACTORS, SATURABLE

SAWS

Aircraft Tools, Inc.
Bergen Carbide Co.
Black & Decker Mfg. Co., The
Capewell Mfg. Co.
Covel Mfg. Co.
De Walt Div., American Machine & Foundry Co.
Hunter Tool Co.
Norwalk Cutter Sharpening Co.
Radial Cutter Mfg. Corp.
Simonds Saw & Steel Co.
Snap-on-Tools Corp.
W. Whitney Stueck, Inc.
Syntron Co.
Transmares Corp.

SCALES, OSCILLOSCOPE

Adept Industries Inc.
Duralith Corp.

SCANNERS, REFLECTED & TRANSMITTED LIGHT

E. W. Bliss Co.
Gordon Enterprises
Perkin-Elmer Corp.
Philco Corp., Government & Industrial Div.
Photobell Co., Inc.
Plastic Age Sales, Inc.
Singer Mfg. Co., The, Military Products Div.
Telechrome Mfg. Corp.

SCOOPS

American Agile Corp.
Barrett-Christie Co.
Benson Mfg. Co., The
***RHEEM MFG. CO., DEFENSE & TECHNICAL PRODUCTS DIV.**

SCREW DRIVERS

Barrett-Christie Co.
Billings & Spencer Co., The
Burklyn Co.
Chicago Pneumatic Tool Co.
Forsberg Mfg. Co., The
Gardner-Denver Co.
Handicraft Tools, Inc., Div.-X-Acto, Inc.
Hunter Tool Co.
Jo-Line Tools, Inc.
Kelsey-Hayes Co.
J. E. Menaugh Co.
Moody Machine Products Co., Inc.
Overload Control Co.
Owatonna Tool Co.
Snap-on-Tools Corp.
Stanley-Judd Div.-The Stanley Works
J. H. Williams & Co.

SCREW, MACHINE PRODUCTS

ACF Industries Inc.
Abalon Precision Mfg. Corp.
Abbott Screw & Mfg. Co.
Actuator Products Div., Geartronics Corp.
Adam Metal Supply Inc.
Aero Bolt & Screw Co., Inc.
Airdome Parts Co.
All Specs Corp.
Allied Plastics Supply Corp.
Allmetal Screw Products Co., Inc.
Alpine Electronic Components, Inc.
Aluminum Co. of America
Amatom Electronic Hardware Co. Inc.
American Hinge Corp.
American Screw Co.
American Standard Products, Inc.
Anti-Corrosive Metal Products Co., Inc.
Arnav Aircraft Associates, Inc.
Atlas Screw & Specialty Co.
Auburn Spark Plug Co., Inc.
Baldwin Mfg. Co. Inc., The
Ball Machine Products Co., The
Bar-Work Mfg. Co., Inc.
Bergen Carbide Co.
Best Aircraft Corp.
Blond Burner Co., The
Bristol Co., The
Capital City Mfg. Co.

Carmac Aviation
Century Fasteners Corp.
Chemplast, Inc.
Chicago Screw Co., The, Div.-Standard Screw Co.
Coaxial Connector Co. Inc.
Columbia Nut & Bolt Co., Inc.
Corbin Products Div.
Curtiss-Wright Corp.-Wright Aeronautical Div.
Dockendorff & Co. Inc.
Eastern Specialty Co., The
Electrical Insulation Co., Inc.
Electronic Parts Mfg. Co., Inc.
Federal Screw Products Inc.
Forsberg Mfg. Co., The
GAR Mfg. Corp.
Goe Engrg. Co.
Gordon Enterprises
Hamilton Watch Co.-Industrial Div.
***HARTFORD MACHINE SCREW CO., DIV.-STANDARD SCREW CO.**
Harvey Aluminum
Hi-Lo Manufacturing Corp.
L S M Mfg. Co.
Lamson & Sessions Co., The
Litton Industries, U.S. Engrg. Co., Div.
Lucas Aircraft Supply Co.
Lux Clock Mfg. Co., Inc.
J. E. Menaugh Co.
Mercury Air Parts Co., Inc.
Mercury Tool & Mfg. Corp.
Moran Co.
J. I. Morris Co.
Napoleon Products Co., The
National Lock Co.
National Screw & Mfg. Co., The
Precision Shapes, Inc.
Prospect Screw Machine Products
Ravenna Metal Products, Div.-Standard Screw Co.
Red Devil Mfg. Co.
Research Development Mfg. Inc.
C. F. Roark Welding & Engrg. Co., Inc.
Scovill Mfg. Co.
Seamless Products Co., Inc.
Sinclair Mfg. Co.
Skinner Precision Products
Sphinx-American Co.
Standard Gage Co., Inc.
Standard Pressed Steel Co.
Stanley-Judd Div.-The Stanley Works
Star Stainless Screw Co.
Swiss Jewel Co.
Tricraft Products Corp.
United Mfg. Co., The
U. S. Industries, Inc.
Vemaline Products Co.
Western Automatic Machine Screw Co., Div.-Standard Screw Co.
Westfield Metal Products Co., Inc.
J. H. Winn Inc.

SCREWS, SELF-TAPPING

Abbott Screw & Mfg. Co.
Adam Metal Supply Inc.
All Specs Corp.
Allmetal Screw Products Co., Inc.
American Screw Co.
Anti-Corrosive Metal Products Co., Inc.
Atlas Screw & Specialty Co.
Barrett-Christie Co.
Best Aircraft Corp.
Calinoy-Div.-Illinois Tool Works
Camcar Screw & Mfg. Co., Div.-Textron Industries, Inc.
Century Fasteners Corp.
Continental Screw Co.
Corbin Products Div.
Eaton Mfg. Co., Reliance Div.
Federal Screw Products Inc.
General American Transportation Corp.
H. M. Harper Co.
Holub Industries, Inc.
Lamson & Sessions Co., The
Lucas Aircraft Supply Co.
J. I. Morris Co.
National Lead Co.
National Lock Co.
National Screw & Mfg. Co., The
Star Stainless Screw Co.
Thompson-Bremer & Co.
Torrington Co., The
Waldom Electronics Inc.

SCREWS, SET

Abbott Screw & Mfg. Co.
Aero Bolt & Screw Co., Inc.
All Specs Corp.
Allen Mfg. Co.
Allmetal Screw Products Co., Inc.
Aluminum Co. of America
American Screw Co.
Anti-Corrosive Metal Products Co., Inc.
Atlas Screw & Specialty Co.
Barrett-Christie Co.
Best Aircraft Corp.
Bristol Co., The
Calinoy-Div.-Illinois Tool Works
Century Fasteners Corp.
Chase Brass & Copper Co., Inc.
Chicago Screw Co., The, Div.-Standard Screw Co.
Corbin Products Div.
Federal Screw Products Inc.
H. M. Harper Co.
***HARTFORD MACHINE SCREW CO., DIV.-STANDARD SCREW CO.**
Lamson & Sessions Co., The
Lucas Aircraft Supply Co.
Mercury Air Parts Co., Inc.
J. I. Morris Co.
National Lead Co.
National Lock Co.
National Screw & Mfg. Co., The
PIC Design Corp., Sub.-Benrus Watch Co., Inc.
Sphinx-American Co.
Standard Pressed Steel Co.
Star Stainless Screw Co.
Waldom Electronics Inc.
Western Automatic Machine Screw Co., Div.-Standard Screw Co.

SCREWS, STANDARD

Abbott Screw & Mfg. Co.
Aero Bolt & Screw Co., Inc.
Alden Products Co.
All Specs Corp.
Allen Mfg. Co.
Allmetal Screw Products Co., Inc.
Aluminum Co. of America
American Screw Co.
Anti-Corrosive Metal Products Co., Inc.
Atlas Screw & Specialty Co.
Best Aircraft Corp.
Calinoy-Div.-Illinois Tool Works
Camcar Screw & Mfg. Co., Div.-Textron Industries, Inc.
Century Fasteners Corp.
Chandler Products Corp.
Chicago Screw Co., The, Div.-Standard Screw Co.
Continental Screw Co.
Corbin Products Div.
Eaton Mfg. Co., Reliance Div.
Federal Screw Products Inc.
General American Transportation Corp.
Hamilton Watch Co.-Industrial Div.
H. M. Harper Co.
***HARTFORD MACHINE SCREW CO., DIV.-STANDARD SCREW CO.**
Hydro Molding Co., Inc.
Lamson & Sessions Co., The
Lucas Aircraft Supply Co.
National Lead Co.
National Lock Co.
National Screw & Mfg. Co., The
PIC Design Corp., Sub.-Benrus Watch Co., Inc.
Screw Corp.
Star Stainless Screw Co.
Torrington Co., The
Waldom Electronics Inc.
Western Automatic Machine Screw Co., Div.-Standard Screw Co.

SEALERS, FUEL & OIL TANK

Armstrong Cork Co.
Carl H. Biggs Co.
Borden Chemical Co.
Curtiss-Wright Corp., Research Div.
Delta Chemical Works, Inc.
Dennis Chemical Co.
Dresser Mfg. Div., Dresser Industries, Inc.
Grant Chemical Co., Inc.
Hydrodyne Corp., Skinner Seal Div.
Johns-Manville
Minnesota Mining & Mfg. Co.
Minnesota Mining & Mfg. Co.-Adhesives, Coating & Sealers Div.
Monogram Precision Industries
Presstite Div., American-Marietta
Products Research Co.
***REDEL INC.**
Thiokol Chemical Corp.
United Aircraft Products, Inc.
United States Rubber Co.

SEALERS, NUCLEAR

Borden Chemical Co.
Components Corp.
Hydrodyne Corp., Skinner Seal Div.
Parker Seal Co., Div.-Parker-Hannifin Corp.
United Aircraft Products, Inc.

SEALERS, PROTECTIVE

Armstrong Cork Co.
Carl H. Biggs Co.
Borden Chemical Co.
Clover Industries, Inc.
Devcon Corp.
Dresser Mfg. Div., Dresser Industries, Inc.
Finnell System, Inc.
Grant Chemical Co., Inc.
Johns-Manville
Kelsey-Hayes Co.
Marblette Corp., The
Minnesota Mining & Mfg. Co.
Minnesota Mining & Mfg. Co.-Adhesives, Coating & Sealers Div.
New England Tape Co., Div.-United-Carr Fastener Corp.
Presstite Div., American-Marietta
Products Research Co.
Seal-Peel, Inc.
Silicones Div.-Union Carbide Corp.
Western Coating Co.

SEALING, SERVICE, HERMETIC

Electro-Seal Corp.
Graflex Inc.
Johns-Manville
Mitronics Inc.
Milton Ross Metals Co., The
Sealectric Switch & Relay Corp.
Seal-Peel, Inc.
Strat-o-Seal Mfg. Co.

SEALS

a. Carbon
b. Ceramic-to-Metal
c. Dust Excluder
d. Grease & Oil
e. Hermetic & Pressurized
f. Hydraulic
g. Insulating
h. Metal-to-Glass
i. Missile
j. Oil
k. Pipe Joint
l. Pump
m. Pump-Mechanical
n. Shaft
o. Special Purpose

Advance Carbon & Electric Mfg. Co., a.
Advanced Products Co., The, b, d, e, f, h thru k, o.
Aero Gasket Corp., f, g, j.
Aircraft Precision Products, Inc., i, n, o.
Allegheny Ludlum Steel Corp., h.
Allied Plastics Supply Corp., d, f, g, j thru o.
Alloy Bellows Inc., l, n.
Alloys Unlimited Inc., h.
Amatom Electronic Hardware Co. Inc., c.
American Aeroparts, c, d, f, h, m.
American Felt Co., c, d.
American Lava Corp., b.
American Optical Co., Instrument Div., h.
Amphenol Connector Div., Amphenol-Borg Electronics Corp., h.
Anchor Packing Co., The, j, n.
Armite Labs.
Associated Engrg. & Mfg. Corp., h.
Astronautics Engrg. Co., a.
Atmo Seal Co., h.
Auburn Mfg. Co., The, c, f thru i, k, l, o.
B G Corp., The, b.
Bacon Industries, Inc., g.
Barrett-Christie Co., k, l, m.
Bellofram Corp., e, f, i, j, o.
Carl H. Biggs Co., b, h, i, j, n, o.
J. Bishop & Co., Platinum Works, h.
Bonny Mfg. Corp., g, o.
Borden Chemical Co., h.
Byron-Jackson Pumps Inc., f, l thru o.
Capital City Mfg. Co., b, f, i, j, n, o.
Carbone Corp., The, a, m, n.
Carborundum Co., Latrobe Plant, Refractories Div., b, e, g, h, o.
Carborundum Co., Refractories Div., b, e, h.
Cartriseal Corp., a thru f, i, j, l thru o.
Centralab, Div.-Globe-Union, b, l, m.
Ceramaseal, Inc., b, h.
Chemplast, Inc., f, g, l thru o.
Chicago Gasket Co., g, m, o.
Chicago Rawhide Mfg. Co., a thru d, f, i, j, l thru o.
Chicago-Allis Mfg. Corp., c, d, j, n.
Cleveland Graphite Bronze, Div.-Clevite Corp., a, j, m, n.
Clover Industries, Inc., c.
Components Corp., d, e, f, i thru m.
C. Lee Cook Co., Airtomic Products Div., a, d, f, i, j, l thru o.
Corning Glass Works, b, h.
Crane Packing Co., d, f, j thru n.
Curtiss-Wright Corp., Research Div., b, g.
Dage Electric Co., Inc., b, e, h.
C. R. Daniels, Inc., d.
Delta Chemical Works, Inc., a, b, f, h, k, o.
Demornay-Bonardi, h.
Devcon Corp., b, g, h, k, o.
Diamonite Products Mfg. Co., b.
***DIVERSEY ENGRG. CO.**, i, o.
Dixon Corp., o.
Dresser Mfg. Div., Dresser Industries, Inc., f.
Durametallic Corp., a, b, m, n.
Firestone Tire & Rubber Co., The, Guided Missile Div., f.
Fischer & Porter Co., h.
Fluorocarbon Co., The, c thru g, i thru n.
Frenchtown Porcelain Co., b.
Furane Plastics, Inc., b, e thru h, j, k.
Fusite Corp., g, h.
Garde Mfg. Co., e.
Gits Brothers Mfg. Co., a thru d, j, l thru o.
Gladding, McBean & Co., b.
Glass Engrg. Div. Braun-Knecht-Heimann Co., h.
Glasseal Products Co., Inc., b, h.
B. F. Goodrich Aviation Products, e.
Grant Chemical Co., Inc., g, h, k, o.
Graphite Metallizing Corp., a, d, j, l thru o.
Greene, Tweed & Co., a thru o.
B. H. Hadley, Inc., i.
Halogen Insulator & Seal Corp., f.
Haskel Engrg. & Supply Co., f, j.
Helwig Carbon Products, Inc., a.
High Vacuum Equipment Corp., o.
Holex, Inc., b.
E. F. Houghton & Co., f.
Houghton Laboratories, Inc., h.
Huntington Rubber Mills, c.

Hydrodyne Corp., Skinner Seal Div., a, b, d, e, f, h, i, j, l thru o.
Integral Corp., f.
Joclin Mfg. Co., d, e, f, i, j, l thru o.
Johns-Manville, b thru h, j thru o.
Kennametal Inc., o.
Kentucky Metal Products Co., o.
Koppers Co., Inc., Metal Products Div., n.
Lear, Inc., Lear-Romec Div., l, m, n.
Linear, Inc., c thru f, i thru o.
Litton Engrg. Labs., b.
Livingston Electronic Corp., e, h.
Machine Products Div., New Haven Trap Rock Co., n.
Magnetic Seal Corp., a thru d, i, j, l thru o.
***McCORMICK SELPH ASSOCIATES, h.**
Metallizing Co. of Los Angeles Inc., b.
Metals & Controls Corp., General Plate Div., b, h.
Metaplast Co. Inc., b, h.
Minnesota Mining & Mfg. Co., b, c, h, i.
Minnesota Rubber Co., c thru f, j, l thru o.
Mitronics Inc., b.
Moran Co., e, o.
Morganite, Inc., a.
National Beryllia Corp., b.
National Utilities Corp., a.
Networks Electronic Corp., e, g, h, i, o.
Norton Co., New Products Dept., b, m.
O & S Research, Inc., h.
Ohio Carbon Co., The, a, d, l, n.
Oil-Dyne, Inc., f, l.
Orchard Industries, Inc., Actionflex Div., i, n, o.
Pacific Universal Products Corp., h.
Parker Seal Co., Div.-Parker-Hannifin Corp., c thru f, i thru n.
Plastic Age Sales, Inc., b.
Polymer Corp., The, g, j, o.
Products Research Co., h, o.
Roberts Toledo Rubber Co., The, d, f, l, o.
Milton Ross Metals Co., The, b, e, g, h.
Rubber Teck Inc., d, e, f, k, o.
Rubbercraft Corp. of California, c, g.
St. Marys Carbon Co., a, d, f, g, j, l thru o.
Schlegel Mfg. Co., c, h, o.
Sealectric Switch & Relay Corp., e.
Sealol Corp., a, d, e, f, i thru o.
Silicone Seals, Inc., e.
Sparta Mfg. Co., Div.-U.S. Ceramic Tile Co., o.
Special Projects Lab., Food Machinery & Chemical Corp., i.
Specialty Plug & Cap. Co., c, o.
Stackpole Carbon Co., a.
Stein Seal Co., a, d, j, m, n, o.
Syntron Co., j, m, n, o.
Thermal Refractories Corp., b.
Thermech Engrg. Corp., c thru g, i thru o.
Trionics Corp., b, o.
United Aircraft Products, Inc., d, e, f, i thru m, o.
U. S. Hammered Piston Ring Co., Inc., d, f, j, l, o.
United States Rubber Co., c, d, j, k.
Vacuum Research Co., o.
Vickers Inc., Marine & Ordnance Dept., Machinery Hydraulics Div., f.
Victor Mfg. & Gasket Co., a thru d, j, l thru o.
Warren Components, Div.-El-Tronics, Inc., h.
Winzen Research Inc., e.
X-Pando Corp., b, c, f, k.
Zophar Mills Inc., g, k, o.

SELECTIVE CALLING APPARATUS

Barker Sales Co.
Bendix Radio Div., Bendix Aviation Corp.
Collins Radio Co.
Du Kane Corp.
I.D.E.A., Inc.
JEM Electronics Corp.
Jansky & Bailey, Inc.
Motorola Inc., Military Electronics Div.
National Pneumatic Co., Inc., Holtzer-Cabot Divs.
Philco Corp., Government & Industrial Div.
Singer Mfg. Co., The, Military Products Div.
Telectro Industries Corp.

SELF-LOCKING NUTS
See NUTS, SELF-LOCKING

SELF-TAPPING SCREWS
See SCREWS, SELF-TAPPING

SENSING DEVICES

***AIRESEARCH MFG. CO., DIV.-THE GARRETT CORP.**
American Instrument Co., Inc.
American Machine & Foundry Co., Government Products Group
American Machine & Foundry Co., Greenwich
Aro Equipment Corp.
Atlantic Instrument Corp., Sub.-American Electronics, Inc.
Baird-Atomic, Inc.
Bendix Aviation Corp., Friez Instrument Div.
Bristol Co., The
Chandler Evans Corp.
Chicago Aerial Industries, Inc.
G. L. Collins Corp.
Consolidated Diesel Electric Corp.
Donner Scientific Co.
Eastman Kodak Co.
Edgerton, Germeshausen & Grier, Inc.
Electro Products Laboratories, Inc.
General Precision Lab. Inc.
G. M. Giannini & Co., Inc.
B. F. Goodrich Aviation Products
Hoffman Electronics Corp., Semiconductor Div.
Hughes Tool Co., Aircraft Div.
ITT Labs.
Inertia Switch, Inc.
***KEARFOTT CO., INC.**
Land-Air Inc.
Lear, Inc., Grand Rapids Div.
Librascope Inc.
Massa Div.-Cohu Electronics, Inc.
Mergenthaler Linotype Co.
Minco Products, Inc.
Mine Safety Appliances Co.
Minneapolis-Honeywell Regulator Co., Industrial Product Group
Motorola Inc., Military Electronics Div.
Ohio Semiconductors, Inc.
Pacific Scientific Co.
Peschel Electronics, Inc.
Philco Corp., Government & Industrial Div.
Photobell Co., Inc.
Power-Tronic Systems Inc.
Radiation, Inc.
Revere Corp. of America
Arthur C. Ruge Associates, Inc.
Sargent Engrg. Corp.
Servomechanisms, Inc.
Shannon Luminous Materials Co.
Sheffield Corp., The, Sub.-Bendix Aviation Corp.
Specialties, Inc.
Standard-Thomson Corp., Clifford Mfg. Co. Div.
Stanley Aviation Corp.
Tapco Group, Thompson-Ramo-Wooldridge Inc.
Trans-sonics, Inc.
U.S. Science Corp., Div.-Topp Industries, Inc.
Victory Engrg. Corp.
Washington Technological Associates Inc.
Waste King Corp., Technical Products Div.
Webcor, Inc., Government Div.
Westronics Inc.

SEPARATION DEVICES

Aircraft Armaments, Inc.
***AIRESEARCH MFG. CO., DIV.-THE GARRETT CORP.**
American Machine & Foundry Co., Government Products Group
Atlantic Research Corp.
Beckman & Whitley, Inc., Missile Products Div.
Bendix Filter Div., Bendix Aviation Corp.
Cooper Development Corp., Sub.-Marquardt Aircraft Co.
***ELECTROSNAP CORP.**
Essex Mfg. Co., Inc.
Genisco, Inc.
Holex, Inc.
Warner Lewis Co., Div.-Fram Corp.
Newbrook Machine Corp.
Precision Sheet Metal, Inc.
Raymond Engrg. Lab., Inc.
Reinhold Engrg. & Plastics Co.
M. H. Rhodes, Inc.
Selas Corp. of America
Sheffield Corp., The, Sub.-Bendix Aviation Corp.
Stanley Aviation Corp.
Thiokol Chemical Corp., Hunter-Bristol Div.

SEPARATORS, OIL

***AIRESEARCH MFG. CO., DIV.-THE GARRETT CORP.**
Aro Equipment Corp.
Bendix Utica Div., Bendix Aviation Corp.
Briggs Filtration Co., The
Harman Equipment Co.
Lear Inc., Lear-Romec Div.
Newbrook Machine Corp.
Purolator Products Inc.
Selas Corp. of America
Sharples Corp., The
Sterling Precision Corp., Instrument Div.
United Aircraft Products, Inc.

SERVICING EQUIPMENT, BATTERY
See BATTERY SERVICING EQUIPMENT

SERVO MECHANISM CONTROL SYSTEMS

ACF Industries Inc.
Aero Supply Mfg. Inc.
Aeroflex Corp., The, Aeroflex Labs. Div.
Aeronca Mfg. Corp., Baltimore Facility
Air Logistics Corp.
Airborne Accessories Corp.
***AIRESEARCH MFG. CO., DIV.-THE GARRETT CORP.**
Amelco, Inc.
American Bosch Arma Corp.
American Electronics, Incorporated
American Machine & Foundry Co., Government Products Group
American Machine & Foundry Co., Greenwich
American Measurement & Control, Inc.
Arma Div., American Bosch Arma Corp.
Astronautics Engrg. Co.
Atlantic Instrument Corp., Sub.-American Electronics, Inc.
Atlas Precision Products, Co.
Avien, Inc.
Barber-Colman Co.
Beaver Precision Products Inc.
Bell Aircraft Corp., Niagara Frontier Div.
Belock Instrument Corp.
Bendix Aviation Corp., Eclipse-Pioneer Div.
***BENDIX AVIATION CORP., HAMILTON DIV.**
Bendix-Pacific Div., Bendix Aviation Corp.
Bendix Radio Div., Bendix Aviation Corp.
Bogue Electric Mfg. Co.
Bristol Co., The
Bulow Electric Co.
CDC Control Services, Inc.
Cadillac Gage Co.
Carmody Corp.
Cedar Engrg. Div.-Control Data Corp.
Centronix Inc.
Chalco Engrg. Corp.
Chandler Evans Corp.
Clifton Precision Products Co., Inc.
Consolidated Controls Corp.
Consolidated Diesel Electric Corp.
Crescent Engrg. & Research Co.
Curtiss-Wright Corp., Propeller Div.
Curtiss-Wright Corp., Research Div.
Dalmotor Div., Yuba Consolidated Industries, Inc.
Daystrom Pacific Div.-Daystrom, Inc.
Daystrom Transicoil Div., Daystrom Inc.
Delco-Remy Div., General Motors Corp.
Donner Scientific Co.
Dresser Industries, Inc.
Dumont Aircraft Fitting Co.
Eastern Industries Inc.
Electro Precision Corp.
Electronic Communications, Inc.
Emerson Electric Mfg. Co., The, Electronics & Avionics Div.
Exact Engrg. & Mfg. Inc.
FAE Instrument Corp.
Fairchild Astrionics Div., Fairchild Engine & Airplane Corp.
J. W. Fecker, Inc.
Feedback Controls, Inc.
Ford Instrument Co., Div.-Sperry Rand Corp.
General Electric Co., Apparatus Sales Div.
General Electric Co., Missile & Space Vehicle Dept.
G. M. Giannini & Co., Inc.
Graflex Inc.
Greer Hydraulics, Inc.
Guided Missile Div.-DeHavilland Aircraft of Canada, Ltd.
Gulton Industries, Inc.
Hallamore Electronics Co.
Hamilton Standard, Div.-United Aircraft Corp.
Haskel Engrg. & Supply Co.
Helipot Div.-Beckman Instruments Inc.
Hoffman Labs. Div., Hoffman Electronics Corp.
Hoover Electric Co.
Walter J. Hyatt Co., The
Hydra-Power Corp.
Inertia Switch, Inc.
Integral Corp.
Intercontinental Dynamics Corp.
Interstate Engrg. Corp.
Jordan Co., Inc., The
***KEARFOTT CO., INC.**
Kelsey-Hayes Co.
Kemp Aero Products
Walter Kidde & Co., Inc., Aviation Div.
Land-Air Inc.
Lear, Inc.
Lear, Inc., Grand Rapids Div.
Lear, Inc., Lear-Romec Div.
Librascope Inc.
Ling Electronics, Inc.
Litton Industries, Maryland Div.
Mergenthaler Linotype Co.
Micro Gee Products, Inc.
Minneapolis-Honeywell Regulator Co., Aeronautical Div.
Minneapolis-Honeywell Regulator Co., Industrial Div.
Minneapolis-Honeywell Regulator Co., Industrial Product Group
Minneapolis-Honeywell Regulator Co., Ordnance Div.
Moog Valve Co., Inc.
Moran Instrument Corp.
Natl. Water Lift Co., Div.-Cleveland Pneumatic Industries, Inc.
Networks Electronic Corp.
Northrop Corp.
Otis Elevator Co., Electronic Div.
Ozone Metal Products Corp.
PIC Design Corp., Sub.-Benrus Watch Co., Inc.
Philco Corp., Government & Industrial Div.
Power-Tronic Systems Inc.
Radiation, Inc.
Reeves Instrument Corp.
Reflectone Corp., The
Reinhold Engrg. & Plastics Co.
Republic Aviation Corp.
Royal Industries, Inc.
Sanders Associates, Inc.
Sargent Engrg. Corp.
Servo Corp. of America
Servomechanisms, Inc.
Singer Mfg. Co., The, Military Products Div.
Specialties, Inc.
Spectrol Electronics Corp.
Sperry Farragut Co., Div.-Sperry Rand Corp.
Stanley Aviation Corp.
Sterling Precision Corp., Instrument Div.
Stratos, Div.-Fairchild Engine & Airplane Corp.
Suffolk Products Corp.
Summers Gyroscope Co.
Sun Electric Corp., Aeronautical Div.
Systems Inc.
Talley Corp., The
United Shoe Machinery Corp., Ordnance Dept.

U. S. Science Corp., Div.-Topp Industries, Inc.
Vard Inc.
Vickers Inc., Div.-Sperry Rand
Vickers, Inc., Marine & Ordnance Dept., Machinery Hydraulics Div.
Waldorf Electronics Div.-F.C. Huyck & Sons
Webcor, Inc., Government Div.
Western Gear Corp.
Westinghouse Electric Corp.
Weston Hydraulics Ltd.-Sub., Borg-Warner Corp.
Westronics Inc.
Wintronics

SERVOS, MEASUREMENT

Air Logistics Corp.
American Electronics, Incorporated
American Machine & Foundry Co., Government Products Group
American Measurement & Control, Inc.
Atlas Precision Products, Co.
Avien, Inc.
B & H Instrument Co., Inc.
Bristol Co., The
Bulow Electric Co.
Chandler Evans Corp.
Datran Electronics, Div.-Mid-Continent Mfg., Inc.
Daystrom Pacific Div.-Daystrom, Inc.
Daystrom Transicoil Div., Daystrom Inc.
Electro Precision Corp.
Exact Engrg. & Mfg. Inc.
FAE Instrument Corp.
Feedback Controls, Inc.
General Electric Co., Apparatus Sales Div.
G. M. Giannini & Co., Inc.
Graflex Inc.
Hamilton Standard, Div.-United Aircraft Corp.
Helipot Div.-Beckman Instruments Inc.
Hoover Electric Co.
***KEARFOTT CO., INC.**
***WALLACE O. LEONARD, INC.**
Minneapolis-Honeywell Regulator Co., Industrial Div.
Minneapolis-Honeywell Regulator Co., Industrial Product Group
Moran Instrument Corp.
F. L. Moseley Co.
New England Scientific Instruments Co.
Norwood Controls Unit Detroit Controls Div.
Philco Corp., Government & Industrial Div.
Power-Tronic Systems Inc.
Reeves Instrument Corp.
Royal Industries, Inc.
Servo Corp. of America
Servomechanisms, Inc.
Stratos, Div.-Fairchild Engine & Airplane Corp.
Sun Electric Corp., Aeronautical Div.
Telechrome Mfg. Corp.
Western Gear Corp.
Weston Hydraulics Ltd.-Sub., Borg-Warner Corp.
Westronics Inc.

SET SCREWS
See SCREWS, SET

SEXTANTS, PERISCOPE TYPE

Baird-Atomic, Inc.
A. Biederman, Inc.
Gordon Enterprises

SHAFT EXTENSIONS
See EXTENSIONS, SHAFT

SHAFT REDUCERS
See REDUCERS, SHAFT

SHAFTS, FLEXIBLE

Actuator Products Div., Geartronics Corp.
American Aeroparts
Barrett-Christie Co.
Bendix Utica Div., Bendix Aviation Corp.
Birnbach Radio Co., Inc.
Bud Radio Inc.
Carmac Aviation
B. W. Elliott Mfg. Co., Inc.
E. F. Johnson Co.
Lear, Inc.
Lear, Inc., Grand Rapdis Div.
Parts Engrg. Co., Inc.
Standard-Thomson Corp., Clifford Mfg. Co. Div.
F. W. Stewart Corp.
Strong Scott Mfg. Co., The

SHAFTS, RIGID

Amatom Electronic Hardware Co. Inc.
American Aeroparts
Atlas Precision Products, Co.
Baldwin Mfg. Co. Inc., The
Birnbach Radio Co., Inc.
Bruce Engrg. Co.
Butler Mfg. Co.
Capital City Mfg. Co.
Carmac Aviation
Curtiss-Wright Corp.-Wright Aeronautical Div.
Finn Aeronautical Div., T. R. Finn & Co., Inc.
Highland Rim Machine Works Inc.
International-Nickel Co., The
E. F. Johnson Co.
Kanarr Corp.
Kelsey-Hayes Co.
Kling Metal Spinning & Stamping Co.
Ladish Co.
***LAVELLE AIRCRAFT CORP.**
***LAVEZZI MACHINE WORKS**
Mercury Air Parts Co., Inc.
Mercury Tool & Mfg. Corp.
PIC Design Corp., Sub.-Benrus Watch Co., Inc.
Piasecki Aircraft Corp.
Research Development Mfg. Inc.
***RHEEM MFG. CO., DEFENSE & TECHNICAL PRODUCTS DIV.**
Joseph T. Ryerson & Son, Inc.
St. Regis Paper Co., Panelyte Div.
Strong Scott Mfg. Co., The
C. W. Torngren Co., Inc.
Tube-Turns Div., Chemetron Corp.
United Mfg. Co., The
Western Gear Corp.
Western Iron & Foundry Co., Inc.

SHAFTS, TURBINES
See Turbine Shafts

SHEET METAL PARTS

ACF Industries Inc.
A & P Metal Products Mfg. Corp.
Abalon Precision Mfg. Corp.
Aerodex, Inc.
Aeronca Mfg. Corp.
Ainslie Corp.
Brooks & Perkins, Inc.
Conco Engrg. Works
Cornell Deep Drawing Co., Div.-Lanes Industries Corp.
Curtiss-Wright Corp., Santa Barbara Div.
Dahlstrom Metallic Door Co.
Detronic Industries
Dow Chemical Co., The
Drayer-Hanson Div., National-U. S. Radiator Corp.
Dresser Industries, Inc.
Aircraft Tools, Inc.
Alpitec, Inc.
Aluminum Co. of America
Amatom Electronic Hardware Co. Inc.
American Aeroparts
American Aluminum Co.
American Machine & Foundry Co., Government Products Group
Anchor Metal Spinning Co., The
Arnolt Corp.
B. H. Aircraft Co., Inc.
Benson Mfg. Co., The
Bergen Carbide Co.
Brooks & Perkins, Inc.
Bruce Engrg. Co.
Bud Radio Inc.
Byrne Doors Inc.
California Aircraft Products
Carmac Aviation
Centronix Inc.
Colonial Aircraft Corp.
Electric Heater Co., The
Electro-Mechanical Products Co.
Eljay Corp.
Elzee Metal Products Co., Inc.
Essex Mfg. Co., Inc.
Farwell Metal Fabricating
Ferris-Mfg. Co., The
Fletcher Mfg. Co., Inc., The
***FLEXONICS CORP., AERONAUTICAL DIV.**
Gardner Laboratory, Inc.
Gasket Mfg. Co. Inc.
Gordon Enterprises
Green Rectifier Co.
Hardman Tool & Engrg. Co.
Highland Rim Machine Works Inc.
Houston Fearless Corp.
Hufford Corp., The
Hughes Tool Co., Aircraft Div.
Philip A. Hunt Co.
Hupp Aviation Co.
Intercontinental Mfg. Co., Inc.
***JANITROL AIRCRAFT DIV., SURFACE COMBUSTION CORP.**
Kaiser Aircraft & Electronics, Div.-Kaiser Industries Corp.
C. B. Kaupp & Sons, Inc.
Kelsey-Hayes Co.
Kirk & Blum Mfg. Co., The
***LAVEZZI MACHINE WORKS**
Leitch-Huard Corp.
Lofstrand Co., The
Longren Aircraft Co., Inc.
R. H. Lynch Mfg. Co.
Lyncoach & Truck Co. Inc.
Mercury Tool & Mfg. Corp.
Metal-Glass Products Co.
Mid-West Metal Products, Inc.
***MIRAX CHEMICAL PRODUCTS CORP., METAL CONTAINER DIV.**
Monogram Precision Industries
Monrovia Aviation Corp.
Muckle Mfg. Co.
Mueller Brass Co.
Newbrook Machine Corp.
Nuclear Products-Erco Div.-ACF Industries, Inc.
Opelika Welding, Machine & Supply Inc.
Peerless Products Industries
Penn-Michigan Mfg. Corp.
Piasecki Aircraft Corp.
Portland Copper & Tank Works Inc.
Precision Sheet Metal, Inc.
R & R Engrg. Co.
Radiatronics, Inc.
Red Lion Cabinet Co., Redco Tool Div.
Edw. Renneburg & Sons Co.
Rimak, Inc.
C. F. Roark Welding & Engrg. Co., Inc.
Rohr Aircraft Corp.
Roll Formed Products Co.
Ryan Aeronautical Co.
Santa Anita Engrg. Co.
Shaw Metal Products Corp.
Skyline Electric & Mfg. Co.
Skyline Products, Inc.
Specialties Mfg. Co., Inc.
Stainless Steel Products, Inc.
Sylvania Electric Products Inc., Parts Div.
Roland Teiner Co., Inc.
Teiner Engrg. Corp.
Transue & Williams Steel Forging Corp.
Turbo Products, Inc.
Twigg Industries
United Aircraft Products, Inc.
United States Chemical Milling Corp.
Universal Metal Products Inc.
Variety Aircraft Corp.
Wayne Foundry & Stamping Co.
Westbury Electronics Inc.
Western ARC Welding, Inc.
Woolf Aircraft Products, Inc.

SHEETS, METAL CLAD
See METAL CLAD SHEETS

SHEETS, METAL CLAD, PRINTED CIRCUIT

American Printed Circuits Co., Inc.
Electrical Insulation Co., Inc.
Etched Products Corp.
Ferris-Mfg. Co., The
Formica Corp.
Franklin Fibre-Lamitex Corp.
General Plastics Corp. of New Jersey
Gladding, McBean & Co.
La Pointe Industries Inc.
Mica Insulator Div.-Minnesota Mining & Mfg., Co.
Miller Dial & Nameplate Co.
Minnesota Mining & Mfg. Co.
National Vulcanized Fibre Co.
New England Laminates Co., Inc.
Northern Plastics Corp.
Pilgrim Products Inc.
Rogers Corp.
Taylor Fibre Co.
United States Chemical Milling Corp.

SHEETS, MOLYBDENUM

Bram Metallurgical & Chemical Co.
Delta Chemical Works, Inc.
Elmet Div.-North American Philips Co., Inc.
Finn Aeronautical Div., T. R. Finn & Co., Inc.
General Electric Co., Lamp Metals & Components Dept.
Metals & Controls Corp., General Plate Div.
Universal-Cyclops Steel Corp.
Westinghouse Electric Corp., Metals Plant

SHELTERS, TRAILERS, VANS

Ace Engrg. & Machine Co., Inc.
Aeronca Mfg. Corp.
American Car & Foundry, Div.-ACF Industries, Inc.
Applied Design Co.
Berger Brothers Co., The
Birdair Structures, Inc.
Brooks & Perkins, Inc.
Butler Mfg. Co.
Carmody Corp.
Colonial Aircraft Corp.
Cooper Development Corp., Sub.-Marquardt Aircraft Co.
Craig Systems, Inc.
Dresser Industries, Inc.
Fruehauf Trailer Co., Military Equipment Div.
Goodyear Aircraft Corp.
Gramm Trailer Corp.
Ludwig Honold Mfg. Co.
Lyncoach & Truck Co. Inc.
Magline Inc.
Metal-Glass Products Co.
***MIRAX CHEMICAL PRODUCTS CORP., METAL CONTAINER DIV.**
Monogram Precision Industries
Monrovia Aviation Corp.
Nuclear Products-Erco Div.-ACF Industries, Inc.
Opelika Welding, Machine & Supply Inc.
Perfection Industries, Div.-Hupp Corp.
Piasecki Aircraft Corp.
Red Lion Cabinet Co., Redco Tool Div.
Trailmobile Inc.
Turbo Products, Inc.
United Aircraft Products, Inc.
Welded Construction Inc.
Winzen Research Inc.

SHIELDING
a. Cathode Ray Tube
b. Coil
c. Electrostatic
d. Heat
e. Ignition
f. Lead
g. Lead, Nuclear
h. Magnetic
i. Radiation
j. Radiation, Nuclear
k. Rubber
l. Sheet or Screen

m. Solid
n. Transformer
o. Tube

Ace Engrg. & Machine Co., Inc., b, k, l.
ACF Industries Inc., i, j.
Aerojet-General Corp., d.
Alloys Unlimited Inc., g.
Alpha Metals, Inc., f.
Alpitec, Inc., h, i, j.
American Brass Co., The, c.
American Smelting & Refining Co., f, g, i, j.
Atlas E-E Corp., o.
Auburn Mfg. Co., The, c, k.
Auburn Spark Plug Co., Inc., e.
Augat Brothers, Inc., o.
Bar-Ray Products, Inc., f, g, i, j.
Belmont Smelting & Refining Works, Inc., f, g, i, j.
Birnbach Radio Co., Inc., e.
Birtcher Corp., The, o.
Borden Chemical Co., e.
Breeze Corporations, Inc.
Brooks & Perkins, Inc., i, j.
Brush Beryllium Co., The, i, j.
Connecticut Hard Rubber Co., The, k.
Co-Operative Industries, Inc., e.
Corning Glass Works, i, j.
Crystal-X Corp., j, l.
Curtiss-Wright Corp., Research Div., i, j.
Dean Products, Inc., d, i.
Devcon Corp., f, g, k.
Division Lead Co., f, g, i, j, l, m.
Dynacor, Inc., h.
Edgerton, Germeshausen & Grier, Inc., a, j.
Elco Corp., o.
Electrical & Mechanical Design Co., e.
Electronic Tube Corp., o.
Emerson & Cuming, Inc., i, j.
Farrel Birmingham Co. Inc., f, g, i, j.
Flexible Metal Hose Mfg. Co.
Furane Plastics, Inc., i, j, k, m, n.
Gladding, McBean & Co., i, j.
Goodyear Tire & Rubber Co., The, Aviation Products Div., j, k.
Hallett Mfg., Co., b thru j.
Hayward Scientific Glass Corp., i.
Huntington Rubber Mills, k.
International Electronic Research Corp., o.
Jan Hardware Mfg. Co., Inc., a, h, n, o.
Jansky & Bailey, Inc., i.
Johns-Manville, d, l, o.
Johns-Manville Sales Corp., d, i, j.
E. F. Johnson Co., a.
Kling Metal Spinning & Stamping Co., n, o.
Lithium Corp. of America, Inc., j, l, m.
Magnetic Shield Div. Perfection Mica Co., a, b, g, m, n.
Magnetics Inc., a, b, h, o.
P. R. Mallory & Co. Inc., i, j, m.
McMillan Industrial Corp., i, l, m.
J. E. Menaugh Co., e.
Metal Textile Corp., Electronics Div., a thru e, h, n, o.
Metaplast Co. Inc., c.
Methode Mfg. Corp., o.
Minnesota Mining & Mfg. Co., d, l.
National Beryllia Corp., d, i, j, o.
National Lead Co., f, g, i, j.
New York Rubber Corp., k.
Newark Wire Cloth Co., c, l.
Norton Co., d, i, j.
Nuclear-Chicago Corp., g, i, j.
Omega Electronic Corp., a, h, n, o.
R & R Engrg. Co., j.
Radiation Instrument Development Lab., Inc., j.
Ray Proof Corp., a, c, g, i, j, l.
Rimak, Inc., a, b, h, n, o.
Rubbercraft Corp. of California, k.
Ryan Aeronautical Co., d, j.
St. Regis Paper Co., Panelyte Div., i.
Shielding Inc., c, h, l, m.
Staver Co., Inc., The, b, f, g, k, o.
Swedlow Inc., d.
Teiner Engrg. Corp., a, o.
Telectro Industries Corp., i, j.
Topatron, Inc., c, h, l, m.
Tranter Mfg., Inc., d.
Universal Unlimited, Inc., a, i.
Warren Wire Co., e.
Waterman Products Co., Inc., a.
Western Tool & Mfg. Co., The, i, j.
Westinghouse Electric Corp., Metals Plant, h.
Zippertubing Co., The, c thru j, l, o.

SHIELDS, LEAD

Alloys Unlimited Inc.
Alpha Metals, Inc.
American Smelting & Refining Co.
Anchor Metal Co. Inc.
Belmont Smelting & Refining Works, Inc.
Devcon Corp.
Division Lead Co.
Elco Corp.
Emerson & Cuming, Inc.
Farrel Birmingham Co. Inc.
Hallett Mfg., Co.
Hayward Scientific Glass Corp.
National Lead Co.
Nuclear-Chicago Corp.
Ray Proof Corp.
Star Expansion
Staver Co., Inc., The
Zippertubing Co., The

SHIMS, ADJUSTING

Acme Mfg. & Gasket Co.
Aero Gasket Corp.
American Silver Co.
Auburn Mfg. Co., The
Gasket Mfg. Co. Inc.
General Gasket Inc.
***LAMINATED SHIM CO.**
PIC Design Corp., Sub.-Benrus Watch Co., Inc.
Staver Co., Inc., The
TA Mfg. Corp.
Wilmington Fibre Specialty Co.
Wrought Washer Mfg., Co.

SHIMS, LAMINATED

Aero Gasket Corp.
Allied Plastics Supply Corp.
Alloys Unlimited Inc.
American Aeroparts
American Aluminum Co.
Auburn Mfg. Co., The
Electrical Insulation Co., Inc.
Emerson Plastics Corp.
Gasket Mfg. Co. Inc.
General Box Co.
Jodee Plastics Co.
***LAMINATED SHIM CO.**
Metals & Controls Corp., General Plate Div.
PIC Design Corp., Sub.-Benrus Watch Co., Inc.
Pacific Cut Washer Co.
Silicone Insulation, Inc.
Staver Co., Inc., The
TA Mfg. Corp.

SHIPPING CONTAINERS

Alco Products, Inc.
Allison Steel Mfg. Co.
American Car & Foundry, Div.-ACF Industries, Inc.
American Machine & Foundry Co., Government Products Group
American Machine & Foundry Co., Greenwich
Applied Design Co.
Arnolt Corp.
Basco Metal Products, Inc.
Carmody Corp.
Champion Co., The
Clark Equipment Co.
Clover Industries, Inc.
Continental Technical Service, Inc.
Crystal-X Corp.
Curtiss-Wright Corp., Santa Barbara Div.
Dresser Mfg. Div., Dresser Industries, Inc.
FWD Corp.
Federal Shock Mount Corp.-Div. The Korfund Co., Inc.
Fruehauf Trailer Co., Military Equipment Div.
General Box Co.
Goodyear Aircraft Corp.
Hardman Tool & Engrg. Co.
Ludwig Honold Mfg. Co.
Intercontinental Mfg. Co., Inc.
Jeta, Inc.
Jet-Heet, Inc.
M. W. Kellogg Co., The
Kirk & Blum Mfg. Co., The
H. Koch & Sons
Lofstrand Co., The
Lyon Van & Storage Co., Aircraft Div.
***MIRAX CHEMICAL PRODUCTS CORP., METAL CONTAINER DIV.**
Monogram Precision Industries
Piasecki Aircraft Corp.
Portland Copper & Tank Works Inc.
Precision Sheet Metal, Inc.
Pressed Steel Tank Co.
Pry Welding & Mfg., Inc.
***RHEEM MFG. CO., DEFENSE & TECHNICAL PRODUCTS DIV.**
Roberts Industries Inc.
Thiokol Chemical Corp.
Vendorlator Mfg. Co.
Washington Technological Associates Inc.
Weber Aircraft Corp.
Zippertubing Co., The

SHOCK ABSORBER CORD & RINGS

American Aeroparts
J. W. Johnson & Co., Inc.

SHOCK ABSORBER LANDING GEAR

American Aeroparts
***BENDIX PRODUCTS DIV., BENDIX AVIATION CORP.**
Cleveland Pneumatic Industries, Inc.
Colonial Aircraft Corp.
Electrol Inc.
Garrett Corp., The, Air Cruisers Div.
Hydra-Power Corp.
J. W. Johnson & Co., Inc.
Menasco Mfg. Co.
Ronson Hydraulic Units Corp.
Taylor Devices, Inc.
U. S. Industries, Inc.
Washington Technological Associates Inc.

SHOCK MOUNTS

American Aeroparts
American Machine & Foundry Co., Government Products Group
American Machine & Foundry Co., Greenwich
Anchor Metal Spinning Co., The
Applied Design Co.
***AVCO MFG. CORP., CROSLEY DIV.**
Barry Controls Inc.
Bushings, Inc.
Capital City Mfg. Co.
Champion Co., The
Cleveland Pneumatic Industries, Inc.
Collins Engrg. Corp.
Cooper Industries, Inc.
Crown Controls Co., Inc.
Dow-Elco, Inc.
Federal Shock Mount Corp.-Div. The Korfund Co., Inc.
Finn Aeronautical Div., T. R. Finn & Co., Inc.
B. F. Goodrich Industrial Products Co.
Johns-Manville
J. W. Johnson & Co., Inc.
Lord Mfg. Co.
MB Mfg. Co.
***MIRAX CHEMICAL PRODUCTS CORP., METAL CONTAINER DIV.**
Orchard Industries, Inc., Actionflex Div.
Pacific Scientific Co.
Robinson Technical Products, Inc.
Rubbercraft Corp. of California
Taylor Devices, Inc.
Western Felt Works & Acadia Synthetic Products Div.

SHOCK TUBES

American Instrument Co., Inc.
Anchor Metal Spinning Co., The
Astravac Corp.
Cleveland Pneumatic Industries, Inc.
Dresser Industries, Inc.
Electric Steel Foundry Co.
General Electric Co., Apparatus Sales Div.
Orchard Industries, Inc., Actionflex Div.
Rubbercraft Corp. of California
U. S. Industries, Inc.
Zippertubing Co., The

SHOCK TUNNELS

Astravac Corp.
General Electric Co., Apparatus Sales Div.
Portland Copper & Tank Works Inc.
Edw. Renneburg & Sons Co.
Zippertubing Co., The

SHOCK & VIBRATION MOUNTINGS

See MOUNTINGS, VIBRATION & SHOCK

SHOWERS, DRENCH & PORTABLE DRENCH

***HAWS DRINKING FAUCET CO.**

SHUNTS, METER

American Aeroparts
Avo Ltd.
Beede Electrical Instrument Co. Inc.
General Electric Co., Apparatus Sales Div.
Janco Corp.
Minneapolis-Honeywell Regulator Co., Industrial Product Group
National Electronics
Precise Development Corp.
Precision Resistor Co. Inc.
Simpson Electric Co.
H. W. Sullivan Ltd.
Weston Instruments, Div.-Daystrom, Inc.

SHUTTERS, MICROWAVE

Aircom Inc. of New Jersey
Airtron Inc., Div.-Litton Industries
Bogart Mfg. Corp.
Douglas Microwave Co., Inc.
FXR, Inc.
J-V-M Microwave Co.
Monogram Precision Industries
Motorola Inc., Military Electronics Div.
Omega Labs., Inc.
Radar Design Corp.
Telerad Mfg. Corp.
Waveline, Inc.

SIGNAL TRACERS

See TRACERS, SIGNAL

SIGNALLING DEVICES

American Machine & Foundry Co., Government Products Group
Barker Sales Co.
Bendix Radio Div., Bendix Aviation Corp.
Bil-Jax Inc.
Centronix Inc.
DBM Research Corp.
Dryomatic Corp.
General Precision Lab. Inc.
Graflex Inc.
JEM Electronics Corp.
Kemlite Laboratories, Inc.
Korry Mfg. Co.
Leetronics, Inc.
Motorola Inc., Military Electronics Div.
Philco Corp., Government & Industrial Div.
Telectro Industries Corp.
Transistor Electronics Corp.
United Control Corp.
Vitro Labs.
Webcor, Inc., Government Div.

SILVER PASTE

Alloys Unlimited Inc.
All-State Welding Alloys Co., Inc.
American Silver Co.
DBM Research Corp.
B. F. Drakenfeld & Co., Inc.
Eastern Smelting & Refining Corp.
Engelhard Industries, Inc.
Micro-Circuits Co.
Joseph E. Podgor Co., Inc.

SKID & SLED CONNECTORS
See CONNECTORS, SKID & SLED

SIMULATORS, FLIGHT

ACF Industries Inc.
American Machine & Foundry Co., Government Products Group
American Missile Products Co., Inc.
Bell Aircraft Corp., Niagara Frontier Div.
Belock Instrument Corp.
Bendix Computer, Div.-Bendix Aviation Corp.
Burton-Rodgers, Inc.
California Technical Industries, Div.-Textron Inc.
Centronix Inc.
Chalco Engrg. Corp.
Colorado Research Corp.
Curtiss-Wright Corp., Electronics Div.
Donner Scientific Co.
Electro-Mechanical Products Co.
Emerson Electric Mfg. Co., The, Electronics & Avionics Div.
Fairchild Astrionics Div., Fairchild Engine & Airplane Corp.
Federal Mfg. & Engrg. Corp.
Federal Scientific Corp.
Gilfillan Bros. Inc.
Goodyear Aircraft Corp.
ITT Federal Div., International Telephone & Telegraph Corp.
ITT Labs.
International Radiant Corp.
Kaiser Aircraft & Electronics, Div.-Kaiser Industries Corp.
Marquardt Aircraft Co.
Micro Gee Products, Inc.
Motorola Inc., Military Electronics Div.
Nuclear Products-Erco Div.-ACF Industries, Inc.
Otis Elevator Co., Electronic Div.
Philco Corp., Government & Industrial Div.
Piasecki Aircraft Corp.
Power-Tronic Systems Inc.
Radiation, Inc.
Ramo-Wooldridge Div., Thompson-Ramo-Wooldridge of Calif.
Reflectone Corp., The
***RHEEM MFG. CO., DEFENSE & TECHNICAL PRODUCTS DIV.**
Topco Group, Thompson-Ramo-Wooldridge, Inc.
Task Corp.
Telectro Industries Corp.
Transdyne Corp.
Waldorf Electronics, Div.-F. C. Huyck & Sons
Westgate Lab., Inc.

SLEEVES, METALLIC

Airdome Parts Co.
American Aluminum Co.
American Brake Shoe Co.
American Standard Products, Inc.
Ampco Metal, Inc.
Anchor Metal Spinning Co., The
Atlantic Instrument Corp., Sub.-American Electronics, Inc.
B. H. Aircraft Co., Inc.
Baldwin Mfg. Co. Inc., The
Capital City Mfg. Co.
Carmac Aviation
Century Fasteners Corp.
Diversey Engrg. Co.
Division Lead Co.
Dresser Mfg. Div., Dresser Industries, Inc.
Electric Steel Foundry Co.
Haynes Stellite Co., Div.-Union Carbide Corp.
Kirk & Blum Mfg. Co., The
Kolcast Industries-Div. Thompson Ramo Wooldridge Inc.
Mercury Tool & Mfg. Corp.
Metal Textile Corp., Electronics Div.
Mitronics Inc.
Edw. Renneburg & Sons Co.
Rimak, Inc.
St. Marys Carbon Co.
Sinclair Mfg. Co.
Smith-Morris Corp.
Specialty Engrg. & Electronics Co.
Stanley-Judd Div.-The Stanley Works
Tube-Turns Div., Chemetron Corp.
United Mfg. Co., The
Wilmington Fibre Specialty Co.
Zippertubing Co., The

SLEEVES, NON-METALLIC

Aeroquip Corp., Jackson Div.
Allied Plastics Supply Corp.
Amatom Electronic Hardware Co. Inc.
American Brake Shoe Co.
Auburn Mfg. Co., The
Auburn Spark Plug Co., Inc.
Bimbach Radio Co., Inc.
William Brand & Co., Inc.
Carmac Aviation
Centralab, Div.-Globe-Union
Chemplast, Inc.
Chicago Gasket Co.
Continental Diamond Fibre Corp.
Continental Rubber Works
Crystal-X Corp.
Diamonite Products Mfg. Co.
Duramic Products Inc.
Electrical Insulation Co., Inc.
Emerson Plastics Corp.
Emmco Plastic Fabricators – Div.-E. M. McCarthy Machine Co.
Franklin Fibre-Lamitex Corp.
General Gasket Inc.
General Plastics Corp. of New Jersey
Gering Products, Inc.
Gladding, McBean & Co.
Graphite Metallizing Corp.
Isolantite Mfg. Corp.
Jessall Plastics
Jodee Plastics Co.
Johns-Manville
Lamtex Industries, Inc.
M & Q Plastic Products
J. E. Menaugh Co.
Metal Textile Corp., Electronics Div.
Mica Insulator Div.-Minnesota Mining & Mfg. Co.
Minnesota Mining & Mfg. Co.
National Beryllia Corp.
National Utilities Corp.
New England Tape Co., Div.-United-Carr Fastener Corp.
Orchard Industries, Inc., Actionflex Div.
Penn Fibre & Specialty Co., Inc.
Pilgrim Products Inc.
Polymer Corp., The
Resistoflex Corp.
Rubbercraft Corp. of California
St. Marys Carbon Co.
Sanford Plastics Corp.
Silicone Insulation, Inc.
Sinclair Mfg. Co.
Sparta Mfg. Co., Div.-U.S. Ceramic Tile Co.
United Mfg. Co., The
United States Rubber Co.
Varflex Corp.
Wilmington Fibre Specialty Co.
Wire Co. of America, Inc.
Zippertubing Co., The

SLEEVES, TUBE

Airdome Parts Co.
All Specs Corp.
Allied Plastics Supply Corp.
Ampco Metal, Inc.
Anchor Metal Spinning Co., The
Arnav Aircraft Associates, Inc.
B. H. Aircraft Co., Inc.
***BEATON & CORBIN MFG. CO., THE**
William Brand & Co., Inc.
Bridgeport Brass Co.
Capital City Mfg. Co.
Carmac Aviation
Centralab, Div.-Globe-Union
Century Fasteners Corp.
Continental Diamond Fibre Corp.
Crown Controls Co., Inc.
Dresser Mfg. Div., Dresser Industries, Inc.
Electric Steel Foundry Co.
General Cement Mfg. Co., Div.-Textron, Inc.
Kolcast Industries-Div. Thompson Ramo Wooldridge Inc.
Lamtex Industries, Inc.
M & Q Plastic Products
Metal Textile Corp., Electronics Div.
Minnesota Mining & Mfg. Co.
Monogram Precision Industries
Orchard Industries, Inc., Actionflex Div.
Penn Fibre & Specialty Co., Inc.
Raybestos-Manhattan, Inc., Pa.
Sanford Plastics Corp.
Silicone Insulation, Inc.
Stanley-Judd Div.-The Stanley Works
Sylvania Electric Products Inc., Parts Div.
Varflex Corp.
Zippertubing Co., The

SLEEVING

Aeroquip Corp., Jackson Div.
Allied Plastics Supply Corp.
Ampco Metal, Inc.
Anchor Metal Spinning Co., The
Birnbach Radio Co., Inc.
William Brand & Co., Inc.
Capital City Mfg. Co.
Carmac Aviation
Centralab, Div.-Globe-Union
Chemplast, Inc.
Division Lead Co.
Federal Machine Co. Inc.
General Cement Mfg. Co., Div.-Textron, Inc.
General Plastics Corp. of New Jersey
Johns-Manville
Lamtex Industries, Inc.
Minnesota Mining & Mfg. Co.
Natvar Corp.
New England Tape Co., Div.-United-Carr Fastener Corp.
Permacel
Polymer Corp., The
Raybestos-Manhattan, Inc., Pa.
Sanford Plastics Corp.
Sparta Mfg. Co., Div.-U.S. Ceramic Tile Co.
Spectra-Strip Wire & Cable Corp.
Varflex Corp.
Zippertubing Co., The

SLIDES

Capital City Mfg. Co.
Chassis-Trak, Inc.
Grant Pulley & Hardware Corp.
Monogram Precision Industries
Precision Shapes, Inc.
Stanley-Judd Div.-The Stanley Works
Universal Metal Products Inc.
Watson Mfg. Co., Inc.

SLIDES, INDUSTRIAL

American Machine & Foundry Co., Greenwich
Grant Pulley & Hardware Corp.
Precision Shapes, Inc.
Universal Metal Products Inc.
Watson Mfg. Co., Inc.

SLIDING LOADS, MICROWAVE

Aircom Inc. of New Jersey
Bogart Mfg. Corp.
Demornay-Bonardi
Douglas Microwave Co., Inc.
FXR, Inc.
ITT Labs.
Lieco, Inc.
Meridian Metalcraft, Inc.
Microlab
Monogram Precision Industries
N.R.K. Mfg. & Engrg. Co.
Narda Microwave Corp., The
Omega Labs., Inc.
Sage Labs., Inc.
Telerad Mfg. Corp.
Waveline, Inc.

SLIP RING ASSEMBLIES

Advance Carbon & Electric Mfg. Co.
American Machine & Foundry Co., Government Products Group
American Machine & Foundry Co., Greenwich
Anderson Machine & Tool Co.
Atlantic Instrument Corp., Sub.-American Electronics, Inc.
Breeze Corporations, Inc.
Collectron Corp.
Electro Development Co.
Electro Tec Corp.
Electro-Mechanical Products Co.
Electro-Miniatures Corp.
Engelhard Industries, Inc.
Engelhard Industries Inc., D. E. Makepeace Div.
Graphite Metallizing Corp.
Iron Fireman Mfg. Co., Electronics Div.
Kelsey-Hayes Co.
Magnetic Controls Co.
Metals & Controls Corp., General Plate Div.
Motorola Inc., Military Electronics Div.
J. M. Ney Co., The
Northrop Corp.
Pacific Scientific Co.
Piasecki Aircraft Corp.
Milton Ross Metals Co., The
Schaevitz Engrg.
Slip Ring Co. of America
Superior Carbon Products, Inc.
Unison Products, Inc.
U. S. Science Corp., Div.-Topp Industries, Inc.

SLOTTED LINES
See LINES, SLOTTED

SMALL BLOWERS
See BLOWERS, SMALL

SNIPS

Hunter Tool Co.
H. K. Porter Co., Inc.
Snap-on-Tools Corp.

SOLDER

a. Aluminum
b. Indium
c. Lead-Tin
d. Platinum
e. Printed Circuit
f. Rings & Preforms
g. Silver

Curtiss-Wright Corp., Research Div.
DBM Research Corp., g.
Dalweld Co. Inc., a, f, g.
Delta Chemical Works, Inc., a thru g.
Division Lead Co., b, c, e, f.
M. W. Dunton Co. Inc., The, c, e, f.
Eastern Smelting & Refining Corp., d, g.
Accurate Specialties Co. Inc., a thru g.
Adam Metal Supply Inc., a.
Alloys Unlimited Inc., a thru d, f, g.
All-State Welding Alloys Co., Inc., a, f, g.
Alpha Metals, Inc., a, b, c, e, f.
Aluminum Co. of America, a.
American Brazing Alloys Co., a, f, g.
American Silver Co., d, f, g.
American Smelting & Refining Co., a, b, c, e.
American Solder & Flux Co., a.

Anchor Metal Co. Inc., a thru g.
Barker Sales Co., a.
Barrett-Christie Co., a, c.
Belmont Smelting & Refining Works, Inc., a, b, c, f, g.
Bow Solder Products Co., Inc., a, b, c, e, f.
Chase Brass & Copper Co., Inc., c, g.
Chemalloy Electronics Corp., a.
Engelhard Industries, Inc., g.
General Cement Mfg. Co., Div.-Textron, Inc., a.
Globe Automatic Sprinkler Div., The Fyr-Fyter Co., c.
Indium Corp. of America, The, b, f.
Johnson Mfg. Co., Inc., a, c, f.
London Chemical Co., Inc., c, e, g.
Metallizing Co. of Los Angeles Inc., a.
Metals & Controls Corp., General Plate Div., d, g.
Mico Instrument Co., c.
Mueller Brass Co., c, g.
Multicore Sales Corp., c, g.
National Lead Co., c.
New York Solder Co., Inc., c.
Savage-Rowe Plating Co., Inc., c.
Standard Metals Corp., f, g.
Staver Co., Inc., The, f.
Teiner Engrg. Corp., a, b, c.
United Wire & Supply Corp., f, g.
Wildberg Bros. Smelting & Refining Co., d, g.

SOLDER POTS

American Gas Furnace Co.
Barrett-Christie Co.
Dee Electric Co.
Delta Chemical Works, Inc.
Eisler Engrg. Co., Inc.
Electro-Tech Equipment Co.
General Electric Co., Apparatus Sales Div.
Special Instruments Div., British Industries Corp.
Temperature Engrg. Corp.
Waage Electric, Inc.

SOLDERING EQUIPMENT, PRINTED CIRCUIT

Dee Electric Co.
Division Lead Co.
Ideal Industries, Inc.
Ransohoff, Co.
Edward Segal
Ungar Electric Tools, Inc.

SOLDERING EQUIPMENT, ULTRASONIC

Gulton Industries, Inc.
Massa Div.-Cohu Electronics, Inc.
Wye Industries

SOLDERING GUNS

Barrett-Christie Co.
Bow Solder Products Co., Inc.
Electro-Tech Equipment Co.
Fisher Scientific Co.
Ideal Industries, Inc.
Metallizing Co. of Los Angeles Inc.
Snap-on-Tools Corp.
Ungar Electric Tools, Inc.

SOLDERING IRONS

American Electrical Heater Co.
Barrett-Christie Co.
Bow Solder Products Co., Inc.
Electro-Tech Equipment Co.
Fisher Scientific Co.
General Electric Co., Apparatus Sales Div.
Ideal Industries, Inc.
Linde Co., Div.-Union Carbide Corp.
National Specialties Co., Inc.
M. M. Newman Corp.
Selas Corp. of America
Snap-on-Tools Corp.
Ungar Electric Tools, Inc.

SOLDERING IRON STANDS

American Electrical Heater Co.
Barrett-Christie Co.
Ungar Electric Tools, Inc.

SOLDERING IRON TIPS

American Electrical Heater Co.
Barrett-Christie Co.
Chase Brass & Copper Co., Inc.
Electro-Tech Equipment Co.
National Specialties Co., Inc.
M. M. Newman Corp.
Snap-on-Tools Corp.
Ungar Electric Tools, Inc.

SOLENOIDS

a. **Control**
b. **Linear**
c. **Rotary**
d. **Sub-Miniature**

A.P.W. Co., a, b, d.
Amelco, Inc., a.
American Aeroparts, b, c.
American Measurement & Control, Inc., a thru d.
Applied Dynamics Corp., a, b.
Artisan Electronics Corp., a, b.
Automatic Electric Sales Corp., b.
Automatic Switch Co., a.
Automation Instruments Inc., a.
***BENDIX PRODUCTS DIV., BENDIX AVIATION CORP.**, a.
Bendix-Pacific Div., Bendix Aviation Corp., b.
Caltron Products Co., a.
***CANNON ELECTRIC CO.**, b, d.
Carruthers & Fernandez, Inc., a thru d.
Coils-Electronics, b.
Cole-Hersee Co.
Comar Electric Co., b, d.
Control Circuits Inc.
Controls Co. of America, b.
Cutler-Hammer Inc., a.
Dalmotor Div., Yuba Consolidated Industries, Inc., b.
Dynamic Controls Corp., a, b, d.
Electric Auto-Lite Co., The, a.
Electro-Mechanical Products Co., a.
Electro-Mechanical Specialties Co., Inc., a, c, d.
Electro-Tech Equipment Co., a, b.
Forbes & Wagner, Inc.
General Electric Co., Apparatus Sales Div., a.
Gordon Enterprises, a, b, c.
Guardian Electric Mfg. Co., a thru d.
Hamilton Standard, Div.-United Aircraft Corp., a, b.
Hoover Electric Co., a thru d.
Induction Motors Corp., a, b, d.
Integral Corp., a.
Jack & Heintz, Inc., b.
Johnson Electronics Inc., b.
***KOONTZ-WAGNER ELECTRIC CO., INC.**, a, b, d.
Land-Air Inc., c.
Lear, Inc., Grand Rapids Div., d.
Leetronics, Inc., a thru d.
G. H. Leland, Inc., c.
G. W. Lisk Co. Inc., a, b, d.
Meletron Corp., b.
Modelectric Products Corp., d.
National Pneumatic Co., Inc., Holtzer-Cabot Divs., a, b.
E. V. Naybor Labs., Inc., b, d.
P. S. P. Engrg. Co., Div.-Induction Motors Corp., b, d.
Penn Keystone Corp., d.
Pickering & Co., Inc., a thru d.
Douglas Randall Inc., a, b.
Talley Corp., The, a, b, c.
Telectro Industries Corp., b.
Transco Products, Inc., b.
Trombetta Solenoid Corp., a, b.
United Aircraft Products, Inc., a, b, c, d.
U. S. Relay Co., a, b.
Webcor, Inc., Government Div., a thru d.
Wheeler Electronic Corp., Sub.-Sperry Rand Corp., a.
Winatic Corp., The, a, b, d.
Z & W Mfg. Corp., b.

SOLID FUELED MISSILE BOOSTERS
See BOOSTERS, MISSILE, SOLID FUELED

SOLID FUELS
See FUELS, SOLID

SOLID ROCKET FUELS

Aerojet-General Corp.
***AMERICAN POTASH & CHEMICAL CORP.**
Astrodyne, Inc.
Atlantic Research Corp.
Callery Chemical Co.
Cooper Development Corp., Sub.-Marquardt Aircraft Co.
Dynamic Devices, Inc.
Foote Mineral Co.
Fulton-Irgon Corp., The
B. F. Goodrich Aviation Products
Kennedy Van Saun Mfg. & Engrg. Corp.
Oerlikon Tool & Arms Corp. of America
Olin Mathieson Chemical Corp., Energy Div.
Pennsalt Chemicals Corp.
***REDEL INC.**
Thiokol Chemical Corp.
Topper Mfg. Co., Inc.

SOLID ROCKET IGNITION ASSEMBLIES
See IGNITION ASSEMBLIES, SOLID ROCKET

SOLID ROCKET PROPELLANT CASES
See PROPELLANT CASES, SOLID ROCKET

SOLID ROCKET PROPELLANTS
See PROPELLANTS, SOLID ROCKET

SONAR

American Machine & Foundry Co., Government Products Group
American Machine & Foundry Co., Greenwich
Atlantic Research Corp.
Bendix-Pacific Div., Bendix Aviation Corp.
Daven Co., The
Dresser Industries, Inc.
General Communication Co.
B. F. Goodrich Industrial Products Co.
Hoffman Labs. Div., Hoffman Electronics Corp.
ITT Federal Div., International Telephone & Telegraph Corp.
ITT Labs.
Ling Electronics, Inc.
Lockheed Aircraft Corp., Missiles & Space Div.
Magnavox Co., The
Minneapolis-Honeywell Regulator Co., Ordnance Div.
Motorola Inc., Military Electronics Div.
Nuclear Products-Erco Div.-ACF Industries, Inc.
Philco Corp., Government & Industrial Div.
Raytheon Mfg. Co., Government Equipment Div.
Rohm & Haas Co., Redstone Arsenal Research Div.
Sangamo Electric Co.
Stromberg-Carlson Div.-General Dynamics Corp.
Thiokol Chemical Corp.
Westinghouse Electric Corp.

SOUND EQUIPMENT TURNTABLES
See TURNTABLES, SOUND EQUIPMENT

SOUND REPRODUCTION EQUIPMENT BRUSHES
See BRUSHES, SOUND REPRODUCTION EQUIPMENT

SOUND SYSTEMS, COMPLETE

Centronix Inc.
Du Kane Corp.
Executone, Inc.
ITT Labs.
ITT-Kellogg
Lane Electronics Mfg. Corp.
Ling Electronics, Inc.
Midwestern Instruments, Inc.
Philco Corp., Government & Industrial Div.
Teiner Engrg. Corp.
Telectro Industries Corp.
University Loudspeakers, Inc.
Webcor, Inc., Government Div.

SOUNDING GRENADES

***AMERICAN POTASH & CHEMICAL CORP.**

SPACERS

Aero Bolt & Screw Co., Inc.
Allied Plastics Supply Corp.
American Aeroparts
Auburn Mfg. Co., The
Capital City Mfg. Co.
Century Fasteners Corp.
Crystal-X Corp.
Diversey Engrg. Co.
Electro-Mechanical Products Co.
Garde Mfg. Co.
General Gasket Inc.
Hupp Aviation Co.
Ladish Co.
Litton Industries, U.S. Engrg. Co., Div.
Mercury Tool & Mfg. Corp.
Mid-West Metal Products, Inc.
Staver Co., Inc., The

SPADE BOLTS
See BOLTS, SPADE

SPEAKER COILS
See COILS, SPEAKER

SPEAKER CONES
See CONES, SPEAKER

SPEAKER GRILLE CLOTHS
See CLOTHS, SPEAKER GRILLE

SPEAKER GRILLS
See GRILLS, SPEAKER

SPEAKER PROJECTOR HORNS
See HORNS, SPEAKER PROJECTOR

SPEAKERS

Barker Sales Co.
Duotone Co., Inc.
Electronic Applications, Inc.
General Coil Products Corp.
Jensen Mfg. Co.
Ling Electronics, Inc.
Oxford Components, Inc.
Perkin-Elmer Corp.
Perry Plastics, Inc.
Philco Corp., Government & Industrial Div.
University Loudspeakers, Inc.
Zenith Radio Corp.

SPECIAL DEVICES

***McCORMICK SELPH ASSOCIATES**

SPECIAL PURPOSE COLORIMETERS
See COLORIMETERS, SPECIAL PURPOSE

SPECTROMETERS

American Electronic Labs., Inc.
Applied Research Labs., Inc.
***BAUSCH & LOMB OPTICAL CO.**
Beckman-Scientific & Process Instruments Div.
Central Scientific Co.
Consolidated Electrodynamics Corp.
Davidson Mfg., Co., Inc.
***ENGIS EQUIPMENT CO.**
Epic, Inc.
Fisher Scientific Co.
General Electric Co., X-Ray Dept.
General Electrodynamics Corp.
Giannini Plasmadyne Corp.
Jarrell-Ash Co.
Nuclear-Chicago Corp.
Perkin-Elmer Corp.
Process & Instruments
Radiation Instrument Development Lab., Inc.
Varian Associates

SPECTROGRAPHIC INSTRUMENTS, PHOTOGRAPHIC MATERIALS
See PHOTOGRAPHIC MATERIALS, SPECTROGRAPHIC INSTRUMENTS

SPECTROPHOTOMETERS

American Electronic Labs., Inc.
Applied Physics Corp.
***BAUSCH & LOMB OPTICAL CO.**
Beckman-Scientific & Process Instruments Div.
Bristol Co., The
Central Scientific Co.
***ENGIS EQUIPMENT CO.**
Fisher Scientific Co.
General Electric Co., Apparatus Sales Div.
Giannini Plasmadyne Corp.
Jarrell-Ash Co.
Perkin-Elmer Corp.
Process & Instruments

SPECTROSCOPIC EQUIPMENT

***BAUSCH & LOMB OPTICAL CO.**
Consolidated Electrodynamics Corp.
***ENGIS EQUIPMENT CO.**
Fisher Scientific Co.
General Electric Co., X-Ray Dept.
Giannini Plasmadyne Corp.
Gordon Enterprises
Jarrell-Ash Co.
Land-Air Inc.
New England Scientific Instruments Co.
Perkin-Elmer Corp.

SPLICING EQUIPMENT

Kinevox Div.-Electromation Co.
Minnesota Mining & Mfg. Co.
Robins Industries Corp.
Shepard Laboratories, Inc.

SPOT WELDERS
See WELDERS, SPOT

SPOTTING CHARGES

***AMERICAN POTASH & CHEMICAL CORP.**

SPRING SUSPENSION SYSTEMS

***NEWAY EQUIPMENT CO.**

SPRINGS
a. Antenna Tension
b. Grounding Antenna
c. Hardware
d. Instrument Hairsprings
e. Knob
f. Precision

Ace Spring Mfg. Co., Inc., a, b, c, e, f.
Amatom Electronic Hardware Co. Inc., c.
American Aeroparts, a thru f.
American Steel Foundries, Hammond Div.
W. L. Barrett Co., The, a thru f.
Birnbach Radio Co., Inc., a.
California Spring Co., Inc., a thru e.
John Chatillon & Sons, d, f.
Consolidated Controls Corp., f.
Consolidated Diesel Electric Corp., f.
General Cement Mfg. Co., Div.-Textron, Inc., e.
Gerbet Hairspring Co., d.
Gordon Enterprises, d, f.
Hunter Spring Co., Div.-American Machine & Metals, Inc., f.
Leetronics, Inc., a, b, e, f.
J. E. Menaugh Co., f.
Mid-West Spring Mfg. Co., f.
Minnesota Mining & Mfg. Co.
***MIRAX CHEMICAL PRODUCTS CORP., METAL CONTAINER DIV.**
J. M. Ney Co., The, f.
PIC Design Corp., Sub.-Benrus Watch Co., Inc., d, e, f.
Piasecki Aircraft Corp.
Reliable Spring & Wire Forms Co., a, b, c, e, f.
Rockwell-Standard Corp., c, f.
Skinner Precision Products
Sphinx-American Co., d, f.
Stanley-Judd Div.-The Stanley Works, a thru f.
Swiss Jewel Co., d.
Wind Turbine Co., a.

SPROCKETS, FILM

***LAVEZZI MACHINE WORKS**

SQUIBS

Aerojet-General Corp.
Atlantic Research Corp.
Bendix-Pacific Div., Bendix Aviation Corp.
Components Corp.
Dynamic Devices, Inc.
Holex, Inc.
Land-Air Inc.
Librascope Inc.
***McCORMICK SELPH ASSOCIATES**
Olin Mathieson Chemical Corp., Energy Div.
***PROPELLEX CHEMICAL DIV., CHROMALLOY CORP.**
Raymond Engrg. Lab., Inc.
***REDEL INC.**
Space Corp.
Taylor Devices, Inc.
Winzen Research Inc.

STABILIZERS

Aeronca Mfg. Corp.
Continential Can Co., Inc.
Intercontinental Mfg. Co., Inc.
Kaiser Aircraft & Electronics, Div.-Kaiser Industries Corp.
Karmco Mfg. Co.
Power-Tronic Systems Inc.
Precision Sheet Metal, Inc.
***RHEEM MFG. CO., DEFENSE & TECHNICAL PRODUCTS DIV.**
Ryan Aeronautical Co.
Santa Anita Engrg. Co.
Sperry Gyroscope Co., Marine Div., Div.-Sperry Rand Corp.
Sperry Piedmont Co. – Div.-Sperry Rand Corp.
Technical Apparatus Builders

STACKS

Benson Mfg., Co., The
Colonial Aircraft Corp.
Kaiser Aircraft & Electronics, Div.-Kaiser Industries Corp.
Newbrook Machine Corp.
Penn-Michigan Mfg. Corp.
Pittsburgh-Des Moines Steel Co.
***RHEEM MFG. CO., DEFENSE & TECHNICAL PRODUCTS DIV.**
Ryan Aeronautical Co.
Stainless Steel Products, Inc.
Western Iron & Foundry Co., Inc.

STAMPED PARTS

***LAMINATED SHIM CO.**

STAMPED PARTS, TUBE

Acromark Co., The
Allied Plastics Supply Corp.
American Aeroparts
Anchor Metal Spinning Co., The
B. H. Aircraft Co., Inc.
Bergen Carbide Co.
California Spring Co., Inc.
Emmco Plastic Fabricators – Div.-E. M. McCarthy Machine Co.
Franklin Fibre-Lamitex Corp.
Kaiser Aircraft & Electronics, Div.-Kaiser Industries Corp.
Kelsey-Hayes Co.
Kling Metal Spinning & Stamping Co.
E. Konigslow Stamping & Tool Co.
Monogram Precision Industries
Newbrook Machine Corp.
Pacific Cut Washer Co.
Peerless Products Industries
Penn-Michigan Mfg. Corp.
Precision Sheet Metal, Inc.
Rimak, Inc.
Rockwell-Standard Corp.
Stainless Steel Products, Inc.
Stanley-Judd Div.-The Stanley Works
Sylvania Electric Products Inc., Parts Div.
Teiner Engrg. Corp.
Universal Metal Products Inc.
Winder Aircraft Corp. of Florida
Woodworth Specialties Corp.
Woolf Aircraft Products, Inc.

STAMPS

Acromark Co., The
Adept Industries Inc.
American Aeroparts
Jas. H. Matthews & Co.
Monogram Precision Industries
Noble & Westbrook Mfg., Co., The
Parker-Hartford Corp., The
Pryor Marking Products
Stanley-Judd Div.-The Stanley Works

STANDARD SCREWS
See SCREWS, STANDARD

STANDARDS
a. Capacitance
b. Equipment, Calibration
c. Frequency
d. Inductance
e. Laboratory Time
f. Phase
g. Resistance
h. Temperature
i. Time
j. Voltage

Accurate Instrument Co., c, e, i.
Acton Labs. Inc., f.
Airtronics International Corp., h.
Avien, Inc., i.
Avtron Mfg., Inc., h.
Rex Bassett, Inc., c.
Beckman Instruments, Inc., Berkeley Div., c.
A. Biederman, Inc., h, g, j.
Boonton Radio Corp.
Borg Equipment Div., Amphenol-Borg Electronics Corp., c, e, i.
Bristol Co., The, h.
Bulova Watch Co., Electronics Div., b, c, e, i, j.
Consolidated Controls Corp., j.
Daven Co., The, g.
Davenport Mfg. Co., b, j.
Divco-Wayne Electronics, Div.-Divco-Wayne Corp., c.
Donner Scientific Co., j.
Dytronics Co., b, f.
Electro-Measurements Inc., a, g.
Electronic Applications, Inc., c.
Electronic Engrg. Co. of California, e, i.
Engrg. Associates, c, e, i.
Erie Resistor Corp., c.
FXR, Inc., b, c.
Federal Mfg. & Engrg. Corp., b.
General Communication Co., b.
Good Electronic Corp., a thru d, g, h, j.
Good-All Electric Mfg. Co., a.
Gyrex Corp., The, c, e, i.
Hewlett-Packard Co., c, e, i.
Hoffman Electronics Corp., Semiconductor Div., j.
I–L–S Instrument Div., The Meriam Instrument Co., c.
Industrial Test Equipment Co., b, c, f.
Kin Tel Div.-Cohu Electronics, Inc., j.
Knopp Inc., b, j.
Land-Air Inc., b, f.
Lavoie Laboratories Inc., c.
Leeds & Northrup Co., a, d, g, h, j.
Mac Leod & Hanopol, Inc., a.
Manson Labs., Inc., c.
Minneapolis-Honeywell Regulator Co., Industrial Product Group, a, b, d, g, j.
George L. Nankervis Co., b.
National Instrument Laboratories, Inc., b.
Networks Electronic Corp., j.
New England Scientific Instruments Co., a, d, g.
Ernest Norman Laboratories, c, e, i.
Northeastern Engrg. Inc., c.
Physics Research Laboratories, Inc., g.
Polytechnic Research & Development Co., Inc., c.
Portchester Instrument Corp., c.
Precise Development Corp., a, d, g, j.
Riverbank Labs., Dept.-Engrg., c.
Rosemount Engrg. Co., h.
Arthur C. Ruge Associates, Inc., h.
Shallcross Mfg. Co., g.
Simpson Electric Co., j.
H. W. Sullivan Ltd., a thru e, g, i.
Technical Apparatus Builders, j.
Technology Instrument Corp., a, f.
Telectro Industries Corp., a.
Textron Corp., c, e, i.
Theta Instrument Corp., f.
Trans-Sonics, Inc., h.
United Aircraft Products, Inc., h.
United States Radium Corp., b.
Varo Mfg. Co., Inc., c.
Wallace & Tiernan Inc., b.
Weinschel Engrg., b.
Weston Instruments, Div.-Daystrom, Inc., b, j.

STANDS, IRON, SOLDERING
See SOLDERING IRON STANDS

STANDS, MICROPHONE

B & K Instruments, Inc.
Bil-Jax, Inc.
General Cement Mfg. Co., Div.-Textron, Inc.
Gordon Enterprises
Mercury Tool & Mfg. Corp.
Specialty Engrg. & Electronics Co.

STANDS, TEST

ACCO Equipment Div., American Chain & Cable Co., Inc.
Aerodex, Inc.
Aerojet-General Corp.
Air Logistics Corp.
Alden Products Co.
American Instrument Co., Inc.
Anchor Specialty Mfg. Co. Inc.
Associated Engineers, Inc.
***ASSOCIATED TESTING LABS., INC.**
Astronautics Engrg. Co.
Avtron Mfg., Inc.
Bil-Jax, Inc.
Centronix Inc.
Champion Co., The
C. B. Christiansen Co.
Colonial Aircraft Corp.
Colson Corp., The
Columbia Research & Development Corp.
Consolidated Diesel Electric Corp.
Continental Technical Service, Inc.
Control Engrg. Co., Div. Jervis B. Webb Co.
Cornelius Co., The, Aero Div.
Curtiss-Wright Corp., Research Div.
Diversey Engrg. Co.
Douglas Microwave Co., Inc.
Dresser Industries, Inc.
Electro-Mechanical Products Co.
Engrg. Associates
Erdco Engrg. Corp.
FXR, Inc.
Farwell Metal Fabricating
General Electric Co., Apparatus Sales Div.
Greer Hydraulics, Inc.
Gremco, Inc.
Hamilton Standard, Div.-United Aircraft Corp.
Paul Hardeman, Inc.
Hardman Tool & Engrg. Co.
Haskel Engrg. & Supply Co.
Hufford Corp., The
Hughes Tool Co., Aircraft Div.
Hycon Mfg. Co.
Industrial Engrg. Corp.

Intercontinental Dynamics Corp.
Jamison Cold Storage Door Co.
Jeta, Inc.
Kahn & Co., Inc.
Kirk & Blum Mfg. Co., The
Korda Industries
Land-Air Inc.
Lear, Inc.
Machine Products Div., New Haven Trap Rock Co.
Mercury Tool & Mfg. Corp.
Merz Engrg., Inc.
Metal Fabricators Corp.
Mid-West Metal Products, Inc.
***MIRAX CHEMICAL PRODUCTS CORP., ELECTRO-MECHANICAL PRODUCTS DIV.**
Monogram Precision Industries
George L. Nankervis Co.
Newbrook Machine Corp.
Opelika Welding, Machine & Supply Inc.
Peschel Electronics, Inc.
Philco Corp., Government & Industrial Div.
Precision Sheet Metal, Inc.
Regent Jack Mfg. Co., Inc.
Robot Industries Inc.
Rucker Co., The
Sancor Corp.
Sargent Engrg. Corp.
Schaffer Air Industries, Inc.
Scientific Engrg. Co.
Smith-Morris Corp.
Stainless Inc.
State Testing Lab. Inc.
Sterns-Roger Mfg. Co.
Sun Electric Corp., Aeronautical Div.
Technical Apparatus Builders
Thiokol Chemical Corp.
United Aircraft Products, Inc.
United Mfg. Co., Div., The W. L. Maxson Corp.
Washington Technological Associates Inc.
Welded Construction Inc.
***R. D. WERNER CO., INC.**
Western Gear Corp.

STANDS, TEST, STATIC
See TEST STANDS, STATIC

STANDS, WAVEGUIDE

Aircom Inc.
Aircom Inc. of New Jersey
Airtron Inc., Div.-Litton Industries
Demornay-Bonardi
Douglas Microwave Co., Inc.
FXR, Inc.
J-V-M Microwave Co.
Metal Fabricators Corp.
Microwave Associates, Inc.
Monogram Precision Industries
Narda Microwave Corp., The
Omega Labs., Inc.
Polytechnic Research & Development Co., Inc.
Radar Design Corp.
Radiatronics, Inc.
Stainless Inc.
Victor R. F. & Microwave Co.
Waveline, Inc.

STARTER CARTRIDGES
See CARTRIDGES, STARTER

STARTERS

***AIRESEARCH MFG. CO. OF ARIZ.**
***AIRESEARCH MFG. CO., DIV.-THE GARRETT CORP.**
American Aeroparts
American Bosch Arma Corp.
Bendix Utica Div., Bendix Aviation Corp.
Consolidated Diesel Electric Corp.
Curtiss-Wright Corp., Santa Barbara Div.
Electric Auto-Lite Co., The
General Electric Co., Apparatus Sales Div.
Hamilton Standard, Div.-United Aircraft Corp.
Hoover Electric Co.
Jack & Heintz, Inc.
Technical Apparatus Builders
Tower Mfg. Corp.
Vickers Inc., Div.-Sperry Rand
Watertown Div., The New York Air Brake Co.

STARTERS, GAS TURBINE ENGINE

Accessory Products Co., Div.-Textron Inc.
Aerojet-General Corp.
***AIRESEARCH MFG. CO. OF ARIZ.**
***AIRESEARCH MFG. CO., DIV.-THE GARRETT CORP.**
American Bosch Arma Corp.
Bendix Utica Div., Bendix Aviation Corp.
Breeze Corporations, Inc.
Consolidated Diesel Electric Corp.
Curtiss-Wright Corp., Santa Barbara Div.
General Electric Co., Apparatus Sales Div.
Hamilton Standard, Div.-United Aircraft Corp.
Hoover Electric Co.
Jack & Heintz, Inc.
***McCORMICK SELPH ASSOCIATES**
George L. Nankervis Co.
Olin Mathieson Chemical Corp., Energy Div.
***RHEEM MFG. CO., DEFENSE & TECHNICAL PRODUCTS DIV.**
Solar Aircraft Co.
Space Corp.
Special Projects Lab., Food Machinery & Chemical Corp.
Thiokol Chemical Corp.
Vickers Inc., Div.-Sperry Rand
Watertown Div., The New York Air Brake Co.
Western Gear Corp.
Westinghouse Electric Corp.

STARTERS, PNEUMATIC

Accessory Products Co., Div.-Textron Inc.
***AIRESEARCH MFG. CO. OF ARIZ.**
***AIRESEARCH MFG. CO., DIV.-THE GARRETT CORP.**
American Aeroparts
Apex Reinforced Plastics, Div.-White Sewing Machine Corp.
Bendix-Pacific Div., Bendix Aviation Corp.
Bendix Utica Div., Bendix Aviation Corp.
Consolidated Diesel Electric Corp.
General Electric Co., Apparatus Sales Div.
Gremco, Inc.
Hamilton Standard, Div.-United Aircraft Corp.
Kahn & Co., Inc.
Walter Kidde & Co., Inc., Aviation Div.
Solar Aircraft Co.

STARTERS, ROCKET ENGINE

Accessory Products Co., Div.-Textron Inc.
Aerojet-General Corp.
Astrodyne, Inc.
Atlantic Research Corp.
Bendix Utica Div., Bendix Aviation Corp.
Consolidated Diesel Electric Corp.
Cooper Development Corp., Sub.-Marquardt Aircraft Co.
Diversey Engrg. Co.
Dynamic Devices, Inc.
Jack & Heintz, Inc.
***McCORMICK SELPH ASSOCIATES**
Olin Mathieson Chemical Corp., Energy Div.
***PROPELLEX CHEMICAL DIV., CHROMALLOY CORP.**
Reaction Motors Div., Thiokol Chem. Corp.
Rocketdyne Div.-North American Aviation, Inc.
Solar Aircraft Co.
Thiokol Chemical Corp.
Thiokol Chemical Corp., Hunter-Bristol Div.

STARTING SYSTEMS & CONTROLS

***AIRESEARCH MFG. CO. OF ARIZ.**
***AIRESEARCH MFG. CO., DIV.-THE GARRETT CORP.**
American Bosch Arma Corp.
***BENDIX PRODUCTS DIV., BENDIX AVIATION CORP.**
Bendix Utica Div., Bendix Aviation Corp.
Consolidated Diesel Electric Corp.
Cornelius Co., The, Aero Div.
General Electric Co., Apparatus Sales Div.
Hamilton Standard, Div.-United Aircraft Corp.
Hoover Electric Co.
Jack & Heintz, Inc.
Kahn & Co., Inc.
Korda Industries
***RHEEM MFG. CO., DEFENSE & TECHNICAL PRODUCTS DIV.**
Robot Industries Inc.
Space Corp.
Stainless Steel Products, Inc.
Tapco Group, Thompson-Ramo-Wooldridge Inc.
Technical Apparatus Builders
Vickers Inc., Div.-Sperry Rand
Watertown Div., The New York Air Brake Co.

STATIC DISCHARGERS
See DISCHARGERS, STATIC

STATIC ELIMINATORS

Emerson Electric Mfg. Co., The, Electronics & Avionics Div.
Goodyear Tire & Rubber Co., The, Aviation Products Div.
Merix Chemical Co.
Philco Corp., Government & Industrial Div.
Thiokol Chemical Corp.
United States Radium Corp.

STATORS, MOTOR & GENERATOR

Bogue Electric Mfg., Co.
Consolidated Diesel Electric Corp.
Dresser Mfg. Div., Dresser Industries, Inc.
General Electric Co., Apparatus Sales Div.
Hoover Electric Co.
Jack & Heintz, Inc.
Leland Airborne Products, Div.-American Machine & Foundry Co.
National Pneumatic Co., Inc., Holtzer-Cabot Divs.
Precision, Inc.
***RHEEM MFG. CO., DEFENSE & TECHNICAL PRODUCTS DIV.**
Talley Corp., The
Westinghouse Electric Corp.
Wincharger Corp., Sub.-Zenith Radio Corp.

STEEL NEEDLES
See NEEDLES, STEEL

STILLS & DEMINERALIZERS

Barnstead Still & Sterilizer Co.
Butler Mfg. Co.
Fisher Scientific Co.
Opelika Welding, Machine & Supply Inc.
Space Corp.
Winzen Research Inc.

STIMULATORS

Electro-Medical Lab., Inc.
Ensco, Inc.
Mast Development Co., Inc.
Northrop Corp., The, Nortronics Div.
Singer Mfg. Co., The, Military Products Div.
Waldorf Electronics, Div.-F.C. Huyck & Sons

STOOLS & BENCHES

Barrett-Christie Co.
Albert H. Cayne Equipment Corp.
Cooper Industries, Inc.
Snap-on-Tools Corp.
Standard Pressed Steel Co.

STORAGE BOXES
See BOXES, STORAGE

STORAGE CONTAINERS

American Machine & Foundry Co., Government Products Group
Anchor Metal Spinning Co., The
Applied Design Co.
Arde-Portland, Inc.
Basco Metal Products, Inc.
Basic Tool Industries, Inc.
Brooks & Perkins, Inc.
Butler Mfg. Co.
Cambridge Co.-Div.-Carrier Corp.
Albert H. Cayne Equipment Corp.
Champion Co., The
Electric Heater Co., The
Elzee Metal Products Co., Inc.
Farwell Metal Fabricating
Fletcher Mfg. Co., Inc., The
General Box Co.
Gremco, Inc.
Ludwig Honold Mfg. Co.
Jeta, Inc.
Kirk & Blum Mfg. Co., The
H. Koch & Sons
Linde Co., Div.-Union Carbide Corp.
Lyon Van & Storage Co., Aircraft Div.
Mercury Tool & Mfg. Corp.
***MIRAX CHEMICAL PRODUCTS CORP., METAL CONTAINER DIV.**
Monogram Precision Industries
Opelika Welding, Machine & Supply Inc.
Ordnance Div.-Food Machinery & Chemical Corp.
Precision Sheet Metal, Inc.
Pressed Steel Tank Co.
Pry Welding & Mfg., Inc.
***RHEEM MFG. CO., DEFENSE & TECHNICAL PRODUCTS DIV.**
Royal Industries, Inc.
Texas Metal & Mfg. Co., Inc.
United Aircraft Products, Inc.
United States Chemical Milling Corp.
Vendorlator Mfg. Co.
Washington Technological Associates Inc.

STORAGE UNITS

Anchor Metal Spinning Co., The
Barrett-Christie Co.
Deluxe Metal Products Co.
***MIRAX CHEMICAL PRODUCTS CORP., METAL CONTAINER DIV.**
***RHEEM MFG. CO., DEFENSE & TECHNICAL PRODUCTS DIV.**
Snap-on-Tools Corp.
Special Projects Lab., Food Machinery & Chemical Corp.
Standard Pressed Steel Co.

STRAIN RELIEFS

Accessory Products Co., Div.-Textron Inc.
Heyman Mfg. Co.
Penn Fibre & Specialty Co., Inc.
Milton Ross Metals Co., The

STRAINERS

Aero Supply Mfg. Inc.
Bendix Filter Div., Bendix Aviation Corp.
A. W. Cash Valve Mfg. Corp.
Commercial Filters Corp.
Cuno Engrg. Corp., The
Dumont Aircraft Fitting Co.
Ladish Co.
Leslie Co.
Jas. P. Marsh Corp.
Michigan Wire Cloth Co.
Mueller Brass Co.
Newark Wire Cloth Co.
OPW-Jordan
Purolator Products Inc.
Republic Mfg. Co.
Spraying Systems Co.
Teiner Engrg. Corp.
Yarnall-Waring Co.

STRIPPERS, WIRE
See WIRE STRIPPERS

STRIPS, GROUNDING

Accurate Electronics Corp., Dept. D
American Silver Co.
Double E Products Co.
Kulka Electric Corp.
Smith-Morris Corp.
Teiner Engrg. Corp.

STRIPS, MOUNTING

Accurate Electronics Corp., Dept. D
Celco, Constantine Engrg. Labs. Co.
Double E Products Co.
Keystone Electronics Corp.
Kulka Electric Corp.
Mitronics Inc.
Rimak, Inc.
Sangamo Electric Co.
Smith-Morris Corp.
Teiner Engrg. Corp.
Tri-Dex Co.

STRIPS, TERMINAL
See TERMINAL STRIPS

STROBOSCOPE, SYNCHRONIZER

Chadwick-Helmuth Co.
Graflex Inc.
Kemlite Laboratories, Inc.
Technical Apparatus Builders
Winkler Labs.

STROBOSCOPES

Astronetics, Inc.
Boulin Instrument Corp.
Chadwick-Helmuth Co.
Edgerton, Germeshausen & Grier, Inc.
Electronic Brazing Co.
Epic, Inc.
Graflex Inc.
Kemlite Laboratories, Inc.
Slaughter Co., Inc.
Sun Electric Corp., Aeronautical Div.
Technical Apparatus Builders
Western Gear Corp.

STRUCTURES
a. Aircraft
b. Aluminum & Stainless Steel Honeycomb
c. Missile

***AVCO MFG. CORP., NASHVILLE DIV.**

STUDIO PATCH CORDS
See PATCH CORDS, STUDIO

SUBMINIATURIZATION SERVICES

Aerolab Development Co.
Alloys Unlimited Inc.
Cleveland Metal Specialties Co., Electronics Div.
Consolidated Diesel Electric Corp.
Cooper Development Corp., Sub.-Marquardt Aircraft Co.
Curtiss-Wright Corp., Electronics Div.
Dockendorff & Co. Inc.
Electro Development Co.
Elgin Micronics Div.-Elgin National Watch Co.
Emerson Electric Mfg. Co., The, Electronics & Avionics Div.
Erie Resistor Corp.
Ferrotran Electronics Co., Inc.
Instruments For Industry, Inc.
***KEARFOTT CO., INC.**
Land-Air Inc.
Lear, Inc.
Livingston Electronic Corp.
Motorola Inc., Military Electronics Div.
Northrop Corp.
Philco Corp., Government & Industrial Div.
Sperry Farragut Co., Div.-Sperry Rand Corp.
Technology Instrument Corp.
Telechrome Mfg. Corp.
Topper Mfg. Co., Inc.
United Aircraft Products, Inc.
Walkirt Co.

SUPERSONIC EQUIPMENT

Aeronca Mfg. Corp.
Aeroscience, Inc.
Bendix Radio Div., Bendix Aviation Corp.
Consolidated Diesel Electric Corp.
Emerson Electric Mfg. Co., The, Electronics & Avionics Div.
Maico Electronics, Inc.
Marquardt Aircraft Co.
Massa Div.-Cohu Electronics, Inc.
Philco Corp., Government & Industrial Div.
Waste King Corp., Technical Products Div.

SUPPORTS, TUBE

Anchor Metal Spinning Co., The
Best Aircraft Corp.
Capital City Mfg. Co.
Mercury Tool & Mfg. Corp.
National Beryllia Corp.

SUPPRESSORS, NOISE

Air Logistics Corp.
All-Tronics, Inc.
Continental Carbon, Div.-Wirt Co.
Curtiss-Wright Corp., Research Div.
Erie Resistor Corp.
Hallett Mfg., Co.
Philco Corp., Government & Industrial Div.
Precision Sheet Metal, Inc.
Rohr Aircraft Corp.
Space Corp.

SURFACE FINISH CONTROLS
See CONTROLS, SURFACE FINISH

SURVEILLANCE RADAR
See RADAR, SURVEILLANCE

SWITCH, GUARDS

Anchor Metal Spinning Co., The
Cutler-Hammer Inc.
Grimes Mfg. Co.
Vemaline Products Co.

SWITCH INERTIA

American Machine & Foundry Co., Government Products Group
Cedar Engrg. Div.-Control Data Corp.
Delco-Remy Div., General Motors Corp.
Diamond Antenna & Microwave Corp.
Donner Scientific Co.
***ELECTROSNAP CORP.**
Elgin Micronics Div.-Elgin National Watch Co.
Elgin Micronics, West Coast Div.-Elgin National Watch Co.
Era Engrg. Inc.
Haydon Switch, Inc.
Hoffman Labs. Div., Hoffman Electronics Corp.
Instrument Development Labs., Inc.
Walter Kidde & Co., Inc., Aviation Div.
Pacific Scientific Co.
Raymond Engrg. Lab., Inc.

SWITCHES
a. Acceleration
b. Air Ram
c. Aneroid
d. Alarm
e. Automatic
f. Automatic Transfer
g. Circuit Breaker
h. Commutation, for Telemetering
i. Contact
j. Control
k. Crossbar
l. Decade
m. Duplex
n. Electronic
o. Float
p. Foot
q. Hermetically Sealed
r. Hydraulic
s. Ignition
t. Impact
u. Indicating
v. Jack
w. Key
x. Knife
y. Limit
z. Liquid Oxygen Control
a1. Mach Limit
b1. Mechanical Control
c1. Mercury
d1. Microphone
e1. Microwave
f1. Miniature
g1. Oil Immersed
h1. Plunger
i1. Pressure
j1. Printed Circuit
k1. Pulse
l1. Pushbutton
m1. Radio
n1. Remote Control
o1. Reset
p1. Rotary
q1. Rotary Chopper
r1. Rotary Sampling
s1. Rotary Selector
t1. Safety
u1. Slide
v1. Snap Action
w1. Specialty
x1. Step Type
y1. Sub-Miniature
z1. Tap
a2. Telemetering
b2. Temperature Control
c2. Thermal
d2. Timing
e2. Toggle
f2. Transformer
g2. Transistor
h2. Vacuum
i2. Wavechange Receiver
j2. Wavechange Transmitter
k2. Waveguide
l2. Waveguide Microwave

ACF Industries Inc., o, r, g-1, i-1, y-1, h-2.
A—G—A Div., Elastic Stop Nut Corp. of America, d-2.
Acro Div., Robertshaw-Fulton Controls, x, h-1, l-1, v-1, x-1, y-1.
Actuation Research Corp., a thru f, b-1, e-1, t-1, k-2, l-2.
Adept Industries Inc., j-1.
Advanced Products Co., The, d-2.
Aero Instrument Co., b, r, i-1, h-2.
Aero Supply Mfg. Inc., a.
Aerolab Development Co., h, n, d-2, g-2.
Aerolite Electronics Corp., y.
Aerotec Corp., The, b, c, d, o, r, u, z, a-1, g-1, i-1, t-1.
Aircom Inc., e-1, i-2.
Aircom Inc. of New Jersey, e-1, k-2, l-2.
Aircraft Controls Co., Div., Gorn Electric Co., Inc., b, c, j, o, r, z, a-1, i-1, b-2.
Airflyte Electronics Co., h, j-1, p-1, q-1, r-1, y-1, a-2.
Airtron Inc., Div.-Litton Industries, e-1, k-2, l-2.
Alden Products Co., u.
Alford Mfg. Co., e-1.
Allied Control Co., Inc., l-1, y-1, a-2, h-2.
Allied International Co., q, e-1, v-1, w-1, x-1.
Alloy Bellows Inc., j, f-1, i-1.
Alto Scientific Co., Inc., h, n, d-2.
Amelco, Inc., j-1.
American Aeroparts, a, b, g.
American Machine & Foundry Co., Government Products Group, a.
American Missile Products Co., Inc., a-2.
Analogue Controls, Inc., y.
Andrew Corp., k-2, l-2.
Applied Science Corp. of Princeton, h, n, a-2.
Arch Gear Works Inc., y, a-1, b-1.
***ARNOUX CORP.**, e, h, n, a-2, b-2.
Arrow-Hart & Hegeman Electric Co., The, e, f, i, j, n, o, p, t, u, w, x, y, b-1, c-1, f-1, h-1, i-1, l-1 thru p-1, s-1 thru w-1, z-1, c-2, d-2, e-2.
Associated Engineers, Inc., d.
Astronautics Engrg. Co., r.
Atlas Precision Products, Co., b-1, d-2.
Automatic Electric Sales Corp., e, f, i, j, q, u, v, g-1, j-1, k-1, n-1, p-1, x-1.
Automatic Switch Co., e, f, j, n, b-1, e-1, n-1.
Avnet Corp.
Barber-Colman Co., b-2.
Barker Sales Co., h, k, v, w, p-1, s-1, x-1, a-2.
Barton Instrument Corp., u.
Barwood Electronics Inc., p.
Beckman & Whitley, Inc., Missile Products Div., a.
Bell & Gossett Co., g-2.
Belock Instrument Corp., a, j, n, u, b-1, i-1, m-1, a-2, e-2.
Benbow Mfg. Corp., i-1.
Bendix Aviation Corp., Friez Instrument Div., c, i-1, d-2.
Bendix Aviation Corp.-Montrose Div., i-1.
Bendix Aviation Corp., Pioneer-Central Div., b, z, a-1.
Bendix Aviation Corp., York Div., n.
Bendix-Pacific Div., Bendix Aviation Corp., a-2.
Bernco Engrg. Corp., c-1, d-2.
A. Biederman, Inc., a.
Birnbach Radio Co., Inc., x, i-1, p-1, u-1, e-2.
Bobrick Mfg. Corp., r, i-1.
Bogart Mfg. Corp., e-1, l-2.
Branson Corp., d, e, f, c-2, d-2.
Bridgeport Thermostat Div., Robertshaw-Fulton Controls Co., i-1.
Bristol Co., The, d, e, h, j, o, i-1, n-1, p-1, s-1, a-2, b-2, d-2, h-2.
Budd Stanley Co. Inc., e-1.
Cable Electric Products Inc., g, n-1, w-1, e-2.
Cadillac Gage Co., i-1.
***CANNON ELECTRIC CO.**, q, p-1, w-1.
Capitol Machine Co., The, j, w, l-1.
Captive Seal Corp., i-1.
Carleton Aviation Co., i-1.
Carling Electric, Inc., j, o, p, b-1, f-1, h-1, l-1, p-1, u-1, v-1, e-2.
Cedar Engrg. Div.-Control Data Corp., a.
Central Electronic Mfrs., Div.-Nuclear Corp. of America, h-2, k-2, l-2.
Centralab, Div.-Globe-Union, h, i, j, l, n, b-1, f-1, l-1, p-1, s-1, u-1, y-1.
Century Electronics & Instruments, Inc., c, j, q, r, z, i-1.
Cinema Engrg., p-1.
C. P. Clare & Co., q, w, x-1.
Clarostat Mfg. Co., Inc., i, j, f-1, m-1, s-1, v-1, i-2.
Cleveland Metal Specialties Co., Electronics Div., j-1.
Cole Electric Co., f, q, a-1, w-1, x-1.
Cole-Hersee Co., d, p, s, w, i-1, l-1, n-1, p-1, t-1, e-2.
Coleman Engrg. Co., Inc., i-1.
Collectron Corp., h, f-1, p-1 thru s-1.
Collins Engrg. Corp., g.
Collins Radio Co., l-2.
Colvin Labs., Inc., h-1, m-1.
Com-Air Products, Div.-A S R Products Corp., i-1.
Comar Electric Co., i.
Components Corp., d, y-1.
Computer Instruments Corp., h, j, f-1, p-1, u-1.
Consolidated Controls Corp., b, c, d, r, a-1, i-1, b-2, c-2, h-2.
Consolidated Diesel Electric Corp., b thru f, j, n, q, r, u, z, b-1, i-1, b-2, c-2, g-2, h-2.
Consolidated Electrodynamics Corp., Rochester Div., h-2.
Continental Carbon, Div.-Wirt Co., u-1.
Control Data Corp., c-2.
Controls Co. of America, y, b-1, i-1, j-1, p-1, s-1, v-1.
Cooper Development Corp., Sub.-Marquardt Aircraft Co., a.
Cornelius Co., The, Aero Div., i-1.
Cornell Deep Drawing Co., Div.-Lanes Industries Corp., d, i, j, o, p, q, y, h-1, i-1, l-1, t-1, v-1, e-2.
Cramer Controls Corp., j, k-1, d-2.
Crescent Engrg. & Research Co., a.
Croname Inc., j-1.

Crucible Steel Co. of America, h.
James Cunningham Son & Co., Inc., k, l-1, m-1, n-1, w-1, o-2, b-2.
Curtiss-Wright Corp., Electronics Div., o-2.
Curtiss-Wright Electronics Div., IMI Branch, i-1, o-2.
Cushman Precision Industries, e, h, i, q, f-1, j-1, n-1, p-1, q-1, r-1, w-1, y-1, o-2, g-2.
Cutler-Hammer Inc., d thru g, i, j, n thru q, y, o-1, f-1, h-1, i-1, l-1, m-1, n-1, p-1, s-1 thru v-1, y-1, b-2, d-2, e-2.
Daven Co., The, h, j, l, f-1, j-1, p-1, r-1, u-1, x-1, y-1, z-1, o-2.
Daystrom Pacific Div.-Daystrom, Inc., a, c, o-1, i-1.
Delco-Remy Div., General Motors Corp., a.
Demornay-Bonardi, e-1, k-2, l-2.
Destron Co., d-2.
Detronic Industries, n, x-1.
Diamond Antenna & Microwave Corp., e-1, k-2, l-2.
Di-An Controls, Inc., n, g-2.
Henry G. Dietz Co., Inc., b, i-1, d-2, h-2.
Dimco-Gray Co., d-2.
Donner Scientific Co., a, c.
Douglas Microwave Co., Inc., e-1, k-2, l-2.
Durakool, Inc., c-1.
Dynamic Controls Corp., i-1, b-2, c-2.
Eagle Electric Mfg. Co. Inc., m, x, c-1, p-1, v-1, e-2.
Eastern Specialty Co., The, s-1, z-1.
Ebert Electronics Corp., o, q, c-1, h-1, v-1, w-1, h-2.
Eitel-McCullough, Inc., h-2.
Eldema Corp., u, f-1, i-1, y-1, g-2.
Electro Development Co., p-1, s-1, y-1.
Electro Products Laboratories, Inc., y.
Electro Tec Corp., h, j, m, q, t, f-1, k-1, p-1 thru s-1, y-1, o-2, d-2.
Electrocraft, Inc., i, j, v, w, d-1, f-1, l-1, w-1, e-2.
Electro-Mechanical Products Co., e, g, i, j, n, y, b-1, h-1, i-1, k-1, n-1, w-1, b-2.
Electro-Mechanical Research, Inc., h, o-2.
Electro-Mechanical Specialties Co., Inc., q, b-1, f-1, p-1 thru s-1, x-1, y-1, d-2.
Electro-Miniatures Corp., h, p-1, q-1, r-1, o-2.
Electron-Radar Products, c.
Electro-Seal Corp., q.
***ELECTROSNAP CORP.**, a, j, q, u, y, z, b-1, f-1, h-1, i-1, k-1, l-1, m-1, o-1, p-1, s-1, t-1, v-1 thru y-1, e-2.
Electro-Tech Equipment Co., o, p, u, y, c-1, f-1, v-1, y-1, d-2, e-2.
Elgin Micronics Div.-Elgin National Watch Co., a, t, d-2.
Elgin Micronics, West Coast Div.-Elgin National Watch Co., a, t.
Emerson Electric Mfg. Co., The, Electronics & Avionics Div., e-1.
Engelhard Industries Inc., D. E. Makepeace Div., h, p-1, q-1, r-1, s-1.
Era Engrg. Inc., a.
Essex Mfg., Co., Inc., b, o, r, z, i-1, m-1, s-1, u-1, e-2.
FXR, Inc., n, e-1, p-1, k-2, l-2.
Farmer Electric Products Co., Inc., y.
Fenwal Inc., d, j, b-2, c-2.
Ferrotron Electronics Co., Inc., g-2.
Foto-Video Labs., Inc., k-1, m-1.
Frebank Co., b, c, r, z, i-1.
Furnas Electric Co., j, o, p, y, i-1, l-1.
G-V Controls Inc., b-2, c-2, d-2.
General Cement Mfg. Co., Div.-Textron, Inc., l-1, p-1, u-1, e-2.
General Communication Co., n, e-1, k-2, l-2.
General Devices, Inc., a, d, e, h, i, j, m, n, q, t thru w, o-1, e-1, j-1 thru m-1, o-1 thru r-1, x-1, z-1, b-2.
General Electric Co., Apparatus Sales Div., e, f, g, i, j, o, q, x, y, g-1, h-1, i-1, l-1, n-1, o-1, p-1, v-1, w-1, b-2 thru f-2, h-2.
Genisco, Inc., a.
Genisco, Inc., Instrument Div., a, h.
G. M. Giannini & Co., Inc., e-1, i-1.
Gibson Electric Co., i.
Gilfillan Bros. Inc.
Glassco Instrument Co., i-1.
John Gombos Co., Inc., e-1.
Good Electronic Corp., l, j-1.
B. F. Goodrich Aviation Products, i-1.
Gordos Corp., c-1.
Graphite Metallizing Corp., h, p-1, q-1.
Gray Instrument Co., l.
Guardian Electric Mfg. Co., l, j, q, f-1, l-1, n-1, v-1, w-1, y-1.
Guided Missile Div.-De Havilland Aircraft of Canada, Ltd., b, r, i-1.
Hamilton Watch Co.-Industrial Div., d-2.
Hamlin, Inc., q, u, c-1, f-1, y-1, h-2.
Hammarlund Mfg., Co., Inc., i, p-1, s-1.
Hart Mfg., Co., The, e, i, n, q, p-1, s-1, u-1, v-1, b-2, e-2.
***A. W. HAYDON CO., THE**, a, f, h, n-1, x-1, o-2, d-2.
Haydon Switch, Inc., a, c, q, t, u, y, b-1, f-1, h-1, i-1, l-1, s-1, v-1, y-1, e-2.
High Vacuum Equipment Corp., h-2.
E. Vernon Hill & Co., b-2.
John W. Hobbs Corp., Div.-Stewart-Warner Corp., i-1, d-2.
Hoffman Electronics Corp., Semiconductor Div., e, l, n, j-1, k-1.
Humphrey, Inc., t.
Walter J. Hyatt Co., The, r, e-1.
***HYDRO-AIRE CO., DIV.-CRANE CO.**, a.
Hydromatics, Inc., q, u, z, b-1.
I-T-E Circuit Breaker Co., g, k-2, l-2.
Illinois Testing Laboratories, Inc., b-2.
Imtra Corp., x-1.
Indusl. Prod.-Danbury Knudsen Div. Amphenol-Borg Electronics Corp., n, w-1, e-2, k-2.
Industrial Timer Corp., c-2, d-2.
Inertia Switch, Inc., a, q, t, u, f-1, n-1, o-1, t-1, v-1, w-1.
Instrument Development Labs., Inc., f, h, q, j-1, r-1, o-2.
International Instruments Inc., f-1, s-1.
International Register Co., v-1, d-2.
Jaidinger Mfg. Co., Inc., v-1.
Janco Corp., q, y, f-1, p-1.
Jansky & Bailey, Inc., n.
Javex Electronics, i, m-1, p-1.
Jennings Radio Mfg. Corp., h-2.
Kahn & Co., Inc., e, j, n, b-1.
Kauke & Co., o-2.
***KEARFOTT CO., INC., MICROWAVE DIV.**, e-1.
Kemp Aero Products, r, z.
Walter Kidde & Co., Inc., Aviation Div., t, i-1.
Kilgen Aircraft Div., k, n-1.
Kinney Mfg. Div., The New York Air Brake Co., h-2.
H. Koch & Sons, w-1, d-2.
Kollsman Instrument Corp., Sub.-Standard Coil Products Co. Inc., c, o-1, i-1, o-2.
Kulka Electric Corp., n, o-2.
Land-Air Inc., j, b-1, p-1, s-1, x-1, o-2, d-2.
Landis & Gyr Inc., d-2.
Lear, Inc.
Lear, Inc., Grand Rapids Div., w-1.
Lear Inc., Lear-Romec Div., r, i-1.
Lee Co., The
Leeds & Northrup Co., l, w, l-1, p-1, s-1, z-1, e-2.
G. H. Leland, Inc., q, n-1, o-1, s-1.
***WALLACE O. LEONARD, INC.**, i-1.
***LEWIS ENGRG. CO., THE**, s-1.
Licon Switch & Control Div., Illinois Tool Works, q, y, f-1, h-1, l-1, o-1, p-1, s-1, v-1, y-1, d-2, e-2, h-2.
Lieco, Inc., e-1, i-2, j-2, k-2, l-2.
Litton Industries, Inc., q-1.
Livingston Electronic Corp., p, q, c-2, d-2, j-2.
Magnavox Co., The, a.
Magnetrol, Inc., a, z.
P. R. Mallory & Co. Inc., e, f, i, j, l, n, q, v, y, b-1, f-1, h-1, i-1, j-1, l-1, m-1, o-1, p-1, q-1, t-1, u-1, v-1, y-1, z-1, d-2, e-2.
Marco Industries Co., u, f-1, l-1.
Mason-Neilan, i-1, h-2.
Mc Gill Mfg. Co. Inc., Bearing Div., l-1, e-2.
Meletron Corp., b, c, r, i-1, p-1, v-1, h-2.
Meridian Metalcraft, Inc., e-1, k-2, l-2.
Metals & Controls Corp., Spencer Div., g, i, j, n, q, y, b-1, f-1, l-1, p-1, v-1, y-1, b-2, c-2.
Micro Switch, Div.-Minneapolis-Honeywell Reg. Co., p, q, u, y, b-1, c-1, f-1, h-1, k-1, l-1, n-1, o-1, p-1, s-1 thru w-1, y-1, b-2, c-2, e-2.
Microwave Associates, Inc., e-1, i-2, j-2, k-2, l-2.
Miller-Robinson Co., i-1.
Minneapolis-Honeywell Regulator Co., Boston Div., q, y.
Minneapolis-Honeywell Regulator Co., Industrial Product Group, v, w, g-1, p-1, r-1, s-1, x-1, b-2.
Minneapolis-Honeywell Regulator Co., Ordnance Div., a, n, g-2.
Monogram Precision Industries, n, e-1, q-1, k-2, l-2.
Donald P. Mossman, Inc., w, i-1.
Motorola Inc., Military Electronics Div., e-1, k-2, l-2.
N.R.K. Mfg. & Engrg. Co., k-2.
George L. Nankervis Co., y.
National Pneumatic Co., Inc., Holtzer-Cabot Divs., v, w.
Nelson Labs., Inc., j, b-1.
Networks Electronic Corp., n, w-1, c-2, g-2.
Newark Controls Co., o, i-1, h-2.
North Electric Co., e, f, h thru k, n, q, w, l-1, n-1, p-1, x-1, o-2, d-2.
Ohio Semiconductors, Inc., n.
Oil-Dyne, Inc., r, i-1.
Pacific Scientific Co., a, p-1 thru s-1.
Paragon Electric Co., d-2.
Penta Labs., Inc., h-2.
Peschel Electronics, Inc., n, g-1.
Philco Corp., Government & Industrial Div.
Phillips Aviation Co.-Marples Gears, e.
Photobell Co., Inc., n, c-2, d-2.
Photocon Research Products, a.
Photo-Crystals, Inc., c-1.
Pickering & Co., Inc., a.
Joseph Pollak Corp., g, l, j, q, s, w, f-1, l-1, p-1, s-1, v-1, e-2.
Portchester Instrument Corp., e-1, k-2.
Precision Circuits, Inc., j-1.
Printronics Corp., j-1.
Radar Design Corp., e-1, l-2.
Radar Relay, Inc., c-1, l-1.
Radiation, Inc., h, n, o-2.
Rauland Corp., The, g-2.
Raymond Engrg. Lab., Inc., a, t.
Raytheon Mfg. Co., k-2.
Reed Research Inc., q.
Republic Mfg. Co., r.
Research Appliance Co., h-2.
Revere Corp. of America, e, q.
M. H. Rhodes, Inc., d-2.
Ripley Co., Inc., n.
Rockwell Corp., d-1, l-1.
Robot Industries Inc., e, j, c-1, n-1.
Rogers Corp., j-1.
Ronson Hydraulic Units Corp., r, i-1.
Milton Ross Metals Co., The, j-1, p-1, y-1.
Rotron Mfg. Co., t-1.
Sage Labs., Inc., e-1.
St. Regis Paper Co., Panelyte Div., j-1.
Sanborn Co., n.
Sangamo Electric Co., c-2, d-2.
Sargent Engrg. Corp., r, e-1, b-1.
Scaico Controls, Inc., d, e, n, q, r, f-1, i-1, n-1, b-2, c-2, d-2.
Schoevitz Engrg., a.
Scientific Instrument Co., b-2.
Sealectric Switch & Relay Corp., d, y, e-1, i-1, p-1, v-1, w-1.
Sequoia Wire & Cable Co., Div.-Mandrel Industries, Inc., j, b-2.
Servomechanisms, Inc., a, r, o-1, f-1, i-1, n-1, b-2.
Shallcross Mfg. Co., i, l, n, f-1, l-1, p-1, s-1.
Singer Mfg. Co., The, Military Products Div., h, i, j, q, u, x, b-1, f-1, g-1, k-1, n-1, p-1, s-1, c-2, d-2.
Slip Ring Co. of America, h, p-1 thru s-1, o-2.
Southwestern Industries, Inc., a, c, r, i-1.
Special Instruments Div., British Industries Corp., k-2, l-2.
Spectrol Electronics Corp., f-1, j-1, p-1, s-1.
Spencer Div., Metals & Controls Corp., g, q, y, f-1, h-1, l-1, v-1, w-1, y-1, b-2, c-2, e-2.
Sperry Microwave Electronics Co., Div.-Sperry Rand Corp., e-1, k-2, l-2.
Stackpole Carbon Co., b-1, s-1, i-2 thru l-2.
Standard-Thomson Corp., Clifford Mfg. Co. Div., p, w-1, o-2.
Stanley Aviation Corp., z-1.
Stevens Mfg. Co., Inc., b-2, c-2.
Strand Engrg. Co., e-1.
Stromberg-Carlson Div.-General Dynamics Corp., z-1.
Sun Electric Corp., Aeronautical Div., z-1.
Superior Carbon Products, Inc., i.
Switchcraft, Inc., i, k, v, w, d-1, f-1, l-1, p-1.
Talley Corp., The, h, p-1, q-1, s-1, o-2.
Tapco Group, Thompson-Ramo-Wooldridge Inc., n, e-1, k-2, l-2.
Technical Apparatus Builders, g-2.
Technology Instrument Corp., n, f-1, s-1, w-1.
Telechrome Mfg. Corp., h, n, j-1, o-2.
Telectro Industries Corp., h, q, w, b-1, m-1, n-1, o-2, f-2.
Telerad Mfg. Corp., e-1, k-2, l-2.
Teletronics Lab. Inc., n.
Tempo Instrument Inc., d-2.
Thermo Electric Co., Inc., b-2.
Torsion Balance Co., The, n, j-1, y-1, g-2.
Tower Mfg. Corp., i, n, x, h-1, l-1, w-1.
Transco Products, Inc., q, e-1, k-2.
Transistor Electronics Corp., u, f-1, l-1, o-1, w-1, y-1.
Ucinite Co., The, Div.-United-Carr Fastener Corp., j-1, l-1, p-1, s-1, v-1, w-1.
George Ulanet Co., q, b-2, c-2.
Unimax Switch Div., The W. L. Maxson Corp., y, h-1, i-1, o-1, t-1, v-1, y-1, e-2.
Unison Products, Inc., f-1, p-1, r-1, y-1, o-2.
United Aircraft Products, Inc., r, z, g-1, i-1, b-2, c-2.
United Control Corp., n, z, b-2, c-2.
United Electric Controls Co., c thru g, i, j, q, r, t, u, y, z, o-1, b-1, i-1, n-1, o-1, t-1, v-1, w-1, x-1, b-2, c-2, d-2, h-2.
U. S. Science Corp., Div.-Topp Industries, Inc., a, i, t, y, e-1, b-2, d-2.
United Supply Co.
Universal Circuit Controls Corp., j, w, y, l-1, p-1.
Vap-Air Aeronautical Products Div., Vapor Heating Corp., q, b-2, c-2.
Vemaline Products Co., p, l-1.
Vickers Inc., Marine & Ordnance Dept., Machinery Hydraulics Div., h-1.
Victor Adding Machine Co.
Victor R. F. & Microwave Co., e-1.
Vitro Labs., n, g-2.
Waldorf Fluid Systems, Div.-F.C. Huyck & Sons, r, i-1.
Walkirt Co., n, d-2.
Wallace & Tiernan Inc., c.
Waltham Engrg. Corp., a, c, s, d-2, h-2.
Waveline, Inc., e-1.
Webcor, Inc., Government Div., h, j-1.
Western Design, Div.-U.S. Industries, Inc.; Santa Barbara Div., d-2.
Western International Co., e-2.
Westinghouse Electric Corp., d, e, g, g-1.
Wilks Precision Instrument Co., Inc., h, q-1, r-1, o-2, d-2.
G. C. Wilson & Co., d-2.
Zenith Electric Co., m-1, d-2.

SWITCHING COMMUTATORS
See COMMUTATORS, SWITCHING

SWITCHING EQUIPMENT, ANTENNA

Aircom Inc.
Alford Mfg. Co.
American Machine & Foundry Co., Government Products Group
Andrew Corp.
Atlas Precision Products, Co.
Babcock Radio Engrg., Inc.
Bendix Aviation Corp., York Div.
Electro Tec Corp.
Houston Fearless Corp.
Lear, Inc., Grand Rapids Div.
Microwave Associates, Inc.
Monogram Precision Industries
National Pneumatic Co., Inc., Holtzer-Cabot Divs.
Philco Corp., Government & Industrial Div.
Radiatronics, Inc.
Telectro Industries Corp.
Transco Products, Inc.
Wind Turbine Co.

SWITCHING EQUIPMENT, CAMERA

C. P. Clare & Co.
Electronic Engrg. Co. of California
Elgin Micronics, West Coast Div.-Elgin National Watch Co.
Flight Research, Inc.
General Precision Lab. Inc.
Houston Fearless Corp.
Hycon Mfg. Co.
ITT-Kellogg
Land-Air Inc.
Philco Corp., Government & Industrial Div.
Singer Mfg. Co., The, Military Products Div.

SYNCHRONIZER STROBOSCOPE
See STROBOSCOPE, SYNCHRONIZER

SYNCHROS

Allis-Chalmers
American Electronics, Inc.
American Electronics, Incorporated
American Machine & Foundry Co., Government Products Group
Bendix Aviation Corp., Eclipse-Pioneer Div.
Bendix Aviation Corp.-Montrose Div.
Clifton Precision Products Co., Inc.
Daystrom Transicoil Div., Daystrom Inc.
Ford Instrument Co., Div.-Sperry Rand Corp.
General Electric Co., Apparatus Sales Div.
Hamilton Watch Co.-Industrial Div.
Helipot Div.-Beckman Instruments Inc.
Hoffman Labs. Div., Hoffman Electronics Corp.
Induction Motors Corp.
***KEARFOTT CO., INC.**
Ketay Dept., Norden Div., United Aircraft Corp.
Kollsman Instrument Corp., Sub.-Standard Coil Products Co. Inc.
Land-Air Inc.
Lear, Inc.
Luther Mfg. Co.
Minneapolis-Honeywell Regulator Co., Boston Div.
P. S. P. Engrg. Co., Div.-Induction Motors Corp.
Servomechanisms, Inc., Mechatrol Div.
Solartron Inc.

SYNCHROSCOPES

Edgerton, Germeshausen & Grier, Inc.
FXR, Inc.
General Communication Co.
General Electric Co., Apparatus Sales Div.
Kollsman Instrument Corp., Sub.-Standard Coil Products Co. Inc.
Polarad Electronics Corp.
Waterman Products Co., Inc.
Weston Instruments, Div.-Daystrom, Inc.

SYSTEMS, MULTIPLEX
See MULTIPLEX SYSTEMS

SYSTEMS, NAVIGATION
See NAVIGATION SYSTEMS

SYSTEMS, PROPULSION
See PROPULSION SYSTEMS

SYSTEMS, PUBLIC ADDRESS
See PUBLIC ADDRESS SYSTEMS

SYSTEMS, REMOTE CONTROL

Aeronca Mfg. Corp.
Allis-Chalmers
American Machine & Foundry Co., Government Products Group
American Machine & Foundry Co., Greenwich
Atlas Precision Products, Co.
Automatic Electric Sales Corp.
Babcock Radio Engrg., Inc.
Belock Instrument Corp.
Bendix Aviation Corp., Eclipse-Pioneer Div.
Bendix Aviation Corp., York Div.
Bliss Electronic Corp.
Bristol Co., The
Collins Radio Co.
Conoflow Corp.
Consolidated Diesel Electric Corp.
Cutler-Hammer Inc.
Dalmotor Div., Yuba Consolidated Industries, Inc.
Data-Control Systems, Inc.
Dayton Aviation Radio & Equipment Corp.
Dresser Industries, Inc.
Edgerton, Germeshausen & Grier, Inc.
Electronic Engrg. Co. of California
***ELECTROSNAP CORP.**
FAE Instrument Corp.
Feedback Controls, Inc.
General Devices, Inc.
General Electric Co., Apparatus Sales Div.
Gordon Enterprises
Hamilton Standard, Div.-United Aircraft Corp.
Hammarlund Mfg., Co., Inc.
Paul Hardeman, Inc.
Haskel Engrg. & Supply Co.
ITT Labs.
Intercontinental Dynamics Corp.
Kahn & Co., Inc.
***KEARFOTT CO., INC.**
Kilgen Aircraft Div.
Land-Air Inc.
Lear, Inc.
Lear, Inc., Grand Rapids Div.
Lundy Mfg. Corp.
Milgo Electronic Corp.
Minneapolis-Honeywell Regulator Co., Industrial Product Group
Motorola Inc., Military Electronics Div.
Nelson Labs., Inc.
North Electric Co.
Philco Corp., Government & Industrial Div.
Raytheon Mfg. Co., Government Equipment Div.
Ryan Aeronautical Co.
Sequoia Wire & Cable Co., Div.-Mandrel Industries, Inc.
Soroban Engrg., Inc.
Technical Apparatus Builders
Thermo Electric Co., Inc.
Transco Products, Inc.
United Electric Controls Co.
Vard Inc.
Waldorf Electronics, Div.-F.C. Huyck & Sons
Washington Technological Associates Inc.
Weston Hydraulics Ltd.-Sub., Borg-Warner Corp.
Westronics Inc.

TABS

Acromark Co., The
Adept Industries Inc.
Breeze Corporations, Inc.
Colonial Aircraft Corp.
Eljay Corp.
Intercontinental Mfg. Co., Inc.
Roovers-Lotsch Corp.
Santa Anita Engrg. Co.
Twin Coach Co., Aircraft-Missiles
Zippertubing Co., The

TABS, DIAL ACCESS

Adept Industries Inc.
Eljay Corp.

TABS, TRIM
See TRIM TABS

TACHOMETERS

Acromag Inc.
Actuator Products Div., Geartronics Corp.
Airguide Instrument Co.
American Electronics, Inc.
American Electronics, Inc.-Instrument Div.
American Machine & Foundry Co., Greenwich
Amthor Testing Instrument Co., Inc.
Associated Research, Inc.
Atlas Precision Products, Co.
B & H Instrument Co., Inc.
Bendix Aviation Corp., Eclipse-Pioneer Div.
Boulin Instrument Corp.
Bristol Co., The
Diehl Mfg. Co.
Electronics Div., Van Norman Industries Inc.
Epic, Inc.
General Electric Co., Apparatus Sales Div.
Ideal Industries, Inc.
Kollsman Instrument Corp., Sub.-Standard Coil Products Co. Inc.
Metron Instrument Co.
Minneapolis-Honeywell Regulator Co., Industrial Div.
Minneapolis-Honeywell Regulator Co., Industrial Product Group.
Heinz Mueller Eng. Co. Inc.
National Electronics
Potter Aeronautical Corp.
Servomechanisms, Inc., Mechatrol Div.
Singer Mfg. Co., The, Military Products Div.
Talley Corp., The
Waltham Precision Instrument Co.
Waugh Engrg. Co.
Weston Instruments, Div.-Daystrom, Inc.
Westronics Inc.

TACHOMETERS, ELECTRONIC

Airguide Instrument Co.
American Machine & Foundry Co., Greenwich
Astronetics, Inc.
B & H Instrument Co., Inc.
Crown Controls Co., Inc.
Dymec Inc.
Electric Auto-Lite Co., The
Electro Products Laboratories, Inc.
Erie Resistor Corp.
G-M Labs. Inc.
Kahn & Co., Inc.
Kollsman Instrument Corp., Sub.-Standard Coil Products Co., Inc.
Minneapolis-Honeywell Regulator Co., Industrial Product Group
Potter Aeronautical Corp.
Slaughter Co., Inc.
Talley Corp., The
Varo Mfg. Co., Inc.
Waugh Engrg. Co.
Westronics Inc.

TAILPIPES, JET ENGINE

ACF Industries Inc.
Basic Tool Industries, Inc.
Curtiss-Wright Corp.-Wright Aeronautical Div.
Dresser Industries, Inc.
Dresser Mfg. Div., Dresser Industries, Inc.
Dunbar-Kapple Inc.-Aircraft Components Div.
Intercontinental Mfg. Co., Inc.
Kaiser Aircraft & Electronics, Div.-Kaiser Industries Corp.
Kaiser Metal Products, Inc. – Fleetwings Div.
Kanarr Corp.
***LAVELLE AIRCRAFT CORP.**
Mercury Tool & Mfg. Corp.
Newbrook Machine Corp.
Penn-Michigan Mfg. Corp.
Piasecki Aircraft Corp.
Portland Copper & Tank Works Inc.
Precision Sheet Metal, Inc.
***RHEEM MFG. CO., DEFENSE & TECHNICAL PRODUCTS DIV.**
Rohr Aircraft Corp.
Ryan Aeronautical Co.
Smith-Morris Corp.
Solar Aircraft Co.
South Wind Div., Stewart Warner Corp.
Stainless Steel Products, Inc.
C. W. Torngren Co., Inc.
Turbo Products, Inc.
Twin Coach Co., Aircraft-Missiles

TANK SEALERS, FUEL & OIL
See SEALERS, FUEL & OIL TANK

TANKS

a. **Auxiliary**
b. **Auxiliary Drop**
c. **Fuel**
d. **Liquid Nitrogen**
e. **Liquid Oxygen**
f. **Liquified Gas Storage**
g. **Low Temperature**
h. **Oil**
i. **Self-Sealing**
j. **Transportation & Storage**

ACF Industries Inc., d, e, f, j.
Aerojet-General Corp., d, e, f.
Aeronca Mfg. Corp., a, b, c, f, j.
Air Logistics Corp., j.
Air Products, Inc., d thru g.
***AIRESEARCH MFG. CO., DIV.-THE GARRETT CORP.**, d, e, f.
Alco Products, Inc., c thru g.
Alsop Engrg. Corp., j.
Aluminum Co. of America, a, b, c, j.
American Aeroparts, a, b, c.
American Agile Corp., g.
American Aluminum Co., a.
American Car & Foundry, Div.-ACF Industries, Inc., d, e, f, h, j.
American Machine & Foundry Co., Government Products Group, a, b, c.
Anchor Metal Spinning Co., The, a, b.
Apex Reinforced Plastics, Div.-White Sewing Machine Corp., f.
Aro Equipment Corp., d thru g.
B. H. Aircraft Co., Inc., h.
Basco Metal Products, Inc., j.
Basic Tool Industries, Inc., a, b, c, j.
Bendix Utica Div., Bendix Aviation Corp., d, e.
Benson Mfg., Co., The, a thru h, j.
Brighton Corp., d, e, f, j.
Brooks & Perkins, Inc., c, d, e, g, h.
Butler Mfg. Co., j.
Cambridge Co.-Div.-Carrier Corp., d thru g, j.
Chemold Co., a, b, g, j.
Chicago Bridge & Iron Co., c thru h.
Colonial Aircraft Corp., a, c.
Conco Engrg. Works, a, j.
Curtiss-Wright Corp.-Wright Aeronautical Div.
D K Mfg. Co., d, e, f.
Doyle & Roth Mfg. Co., Inc., c thru g, j.
Dresser Mfg. Div., Dresser Industries, Inc., j.
Electric Heater Co., The, j.
Emerson Electric Mfg. Co., The, Electronics & Avionics Div., a, c.
FWD Corp., c, j.
G. W. Galloway Co., c thru g, j.
General American Transportation Corp., c, d, e, g, j.
B. F. Goodrich Aviation Products, c, i.
Goodyear Tire & Rubber Co., The, Aviation Products Div., a, c, g thru j.
Hahn & Clay, d thru h, j.
Paul Hardeman, Inc., d thru g.
Hardman Tool & Engrg. Co., a, b, c.
Harris Refrigeration Co., g.
Hofman Labs., Inc., d thru g.
Ludwig Honold Mfg. Co., a, b, c, h, j.
Houston Fearless Corp., a, h.
Hupp Aviation Co., c.
International Pump & Machine Works, d, e.
Javelin Aircraft Co. Inc., a thru g.
Joclin Mfg. Co., a.
Kaiser Aircraft & Electronics, Div.-Kaiser Industries Corp., a thru e, h, i, j.
Kaiser Metal Products, Inc.-Fleetwings Div., c.
Kaiser Steel Corp., Fabricating Div., a.
Kanarr Corp., b.
M. W. Kellogg Co., The, a thru g.
Kirk & Blum Mfg. Co., The, j.
Ladish Co., d, e.
Lamtex Industries, Inc., c, j.
***LAVELLE AIRCRAFT CORP.**, a, h.
Linde Co., Div.-Union Carbide Corp., d thru g.
Longren Aircraft Co., Inc., a, b, c, g, j.
Menasco Mfg. Co., d thru g.
Mercury Tool & Mfg. Corp., h, j.
***MIRAX CHEMICAL PRODUCTS CORP., METAL CONTAINER DIV.**, a, c, j.
John Mohr & Sons, d, e, g, i.
Monogram Precision Industries, a, b, j.
Monrovia Aviation Corp., a, b, c.

National Tube Div.-United States Steel Corp., d, e, f, j.
Newbrook Machine Corp., a, b, d thru h.
Nooter Corp., j.
Norris-Thermador Corp., b, d, e.
Nuclear Products-Erco Div.-ACF Industries, Inc., a, b.
Opelika Welding, Machine & Supply Inc., c, f, h, j.
Piasecki Aircraft Corp., a, b, c, h, j.
Pittsburgh-Des Moines Steel Co., d thru h, j.
Portland Copper & Tank Works Inc., e, f, g.
Precision Sheet Metal, Inc., a thru g, j.
Pressed Steel Tank Co., a, c thru f, j.
Project Fabrication Corp., c thru g, j.
R & R Engrg. Co., j.
Reaction Motors Div., Thiokol Chem. Corp., c, e.
Regent Jack Mfg. Co., Inc., h.
Reinhold Engrg. & Plastics Co., a, b, c.
Edw. Renneburg & Sons Co., a, c, h.
***RHEEM MFG. CO., DEFENSE & TECHNICAL PRODUCTS DIV.**, a, c thru h.
Rohr Aircraft Corp., a thru e, g.
Ronan & Kunzl, Inc., d thru g, j.
Royal Industries, Inc., a thru e, g, h, j.
Ryan Aeronautical Co., a, b, c, h.
Sandberg-Serrell Corp., j.
Santa Anita Engrg. Co., a, b, c, h.
Scaife Co.-Div.-Wilson Bros., c, j.
Seamless Products Co., Inc., h.
Shaw Metal Products Corp., c, h.
Skyline Products, Inc., c, h.
Smith-Morris Corp., a, b, c, h.
Solar Aircraft Co., c, h.
Space Corp., j.
Stainless Steel Products, Inc., a, c, d, e, h.
Standard Steel Corp., d thru g, j.
Stearns-Roger Mfg. Co., c thru g, j.
Superior Air Products Co., d thru g, j.
Tapco Group, Thompson-Ramo-Wooldridge Inc., d thru g.
Trailmobile Inc., c, j.
Twin Coach Co., Aircraft-Missiles, a, b, h, j.
United Aircraft Products, Inc., a, b, c, g thru j.
U. S. Industries, Inc.
United States Chemical Milling Corp., b, c.
United States Rubber Co., c, i, j.
Universal Moulded Products Corp., b.
Universal Unlimited, Inc., j.
Washington Aluminum Co., Inc., e, j.
Weber Aircraft Corp., a thru e, h.
Western ARC Welding, Inc., d, e, g.
Westline Products Div.-Western Lithograph Co., h.
Winder Aircraft Corp. of Florida, a, b.
Woolf Aircraft Products, Inc., c, h.

TANKS, PROPELLANT
See PROPELLANT TANKS

TAPES

a. **Asbestos**
b. **Coated & Impregnated**
c. **Electrical Insulation**
d. **Fabric**
e. **Friction**
f. **Heat Resistant**
g. **Plastic**
h. **Pressure Sensitive**
i. **Recording**
j. **Rubber, Natural & Synthetic**
k. **Test**

Accurate Mfg. Co., c, e, g, j.
Adept Industries Inc., h.
Aero Leather Products Co., d, e.
Allied International Co., a thru h, j.
Allied Plastics Supply Corp., a thru h, j.
American Aeroparts, h, j.
American Super-Temperature Wires, Inc., g.
Ampex Magnetic Tape, i.
Arnold Engrg. Co., The, i.
Auburn Mfg. Co., The, a, c, g, j.
Audio Devices, Inc., i.
Barrett-Christie Co., a, c, j.
Bemis Brothers Bag Co., h.
Carl H. Biggs Co., b, f, g.
Bishop Mfg. Corp., c, g, h, j.
Bonny Mfg. Corp., c, g.
Borden Chemical Co., c, f, g.
W. H. Brady Co., h.
Carborundum Co., Refractories Div., f.
Chemold Co., b, d, g.
Chemplast, Inc., c, f, g.
Chicago Gasket Co., c, g, h.
Colonial Rubber Co., j.
Connecticut Hard Rubber Co., The, b, c, d, f, h.
Continental Diamond Fibre Corp., b, c, d, f.
Continental Rubber Works, c, e, g, j.
Cooper Industries, Inc., c.
Crystal-X Corp., g.
Dielectrix Corp., c, h.
Dixon Corp., g.
M. W. Dunton Co. Inc., The, c, e.
Duotone Co., Inc., i.
E. I. Du Pont De Nemours & Co. Inc., b, c, h, j.
Duracote Corp., b, d, g, h, j.
Electro Technical Products Div. Sun Chemical Corp., b, c, h.
Flexrock Co., g.
Fluorocarbon Co., The, g.
Franklin Fibre-Lamitex Corp., c, g, h.
Gatke Corp., a.
General Plastics Corp. of New Jersey, b, f, h.
Gering Products, Inc., g, h.
B. F. Goodrich Industrial Products Co., j.
Greene, Tweed & Co., b, d, f, j.
Halogen Insulator & Seal Corp., g.
Haveg Industries, Inc., b, f, g.
Huntington Rubber Mills, j.
Integrated Mica Corp., b, c, f.
Jessall Plastics, g.
Joclin Mfg. Co., b, c, f, g, h.
Johns-Manville, a thru h, j.
Johns-Manville Sales Corp., a thru h.
Labelon Tape Co., Inc., g, h.
Livingston Electronic Corp., i, k.
M & Q Plastic Products, g.
Mica Insulator Div.-Minnesota Mining & Mfg., Co., b, c.
Minicom Div., Minnesota Mining & Mfg. Co., i.
Minnesota Mining & Mfg. Co., a thru k.
Monogram Precision Industries, b, j.
Motorola Inc., Military Electronics Div., i.
Natvar Corp., b, c, g.
New England Tape Co., Div.-United-Carr Fastener Corp., g.
New York Rubber Corp., j.
Okonite Co., The, Subsidiary of Kennecott Copper Corp., c, e, g, j.
Orradio Industries, Inc., i.
Pee Cee Tape & Label Co., f, h.
Permacel, b thru h, j, k.
Plastic Age Sales, Inc., g.
Polyken Sales Div., The Kendall Co., b, c, d, f, g, h.
Polymer Corp., The, c, g, h.
H. K. Porter Co., Inc., Thermoid Div., c, d, e, h.
Products Research Co., b.
Raybestos-Manhattan, Inc., a, c, g, j.
Raybestos-Manhattan, Inc., Pa., a, b, c, f, g, j.
Rubbercraft Corp. of California, j.
Schlegel Mfg. Co., d.
Simplex Wire & Cable Co., c, j.
Somers Brass Co. Inc., i.
Sparta Mfg. Co., Div.-U.S. Ceramic Tile Co., b, c, g.
A. T. Stevens Co., b, d.
Technical Tape Corp., b, c, f, g, h.
Thermech Engrg. Corp., g.
H. I. Thompson Fiber Glass Co., c.
Turbo Products, Inc., c, g.
Union Asbestos & Rubber Co., a, b, f.
United States Rubber Co., a thru e, j.
Western Felt Works & Acadia Synthetic Products Div., j.
Westinghouse Electric Corp., b, c.
Westline Products Div.-Western Lithograph Co., h.
Zippertubing Co., The, a, b, c, d, f, g.

TARGET DEVICES

Aerolab Development Co.
Aeronca Mfg. Corp.
Aircraft Armaments, Inc.
American Machine & Foundry Co., Government Products Group
Andersen Labs.
Astrodyne, Inc.
Bell Aircraft Corp., Niagara Frontier Div.
Belock Instrument Corp.
Benson Mfg., Co., The
Bulow Electric Co.
Burton-Rodgers, Inc.
Centronix Inc.
Colonial Aircraft Corp.
Cooper Development Corp., Sub.-Marquardt Aircraft Co.
Curtiss-Wright Corp., Santa Barbara Div.
DBM Research Corp.
Dynamic Devices, Inc.
Emerson & Cuming, Inc.
Gordon Enterprises
Walter J. Hyatt Co., The
Intercontinental Mfg. Co., Inc.
Monogram Precision Industries
Monrovia Aviation Corp.
Motorola Inc., Military Electronics Div.
Nuclear Products-Erco Div.-ACF Industries, Inc.
Philco Corp., Government & Industrial Div.
Piasecki Aircraft Corp.
Raytheon Mfg. Co., Government Equipment Div.
Republic Aviation Corp.
Royal Industries, Inc.
Ryan Aeronautical Co.
Singer Mfg. Co., The, Military Products Div.
Squiers Gage Co.
Stanley Aviation Corp.
Telectro Industries Corp.
Twin Coach Co., Aircraft-Missiles
U. S. Industries, Inc.
Waltham Engrg. Corp.
Winzen Research Inc.

TELEMETERING, GUIDED MISSILE
See GUIDED MISSILE TELEMETERING

TELEVISION GUN MOUNTS
See GUN MOUNTS, TELEVISION

TEMPERATURE CONTROL SYSTEMS

Airborne Accessories Corp.
***AIRESEARCH MFG. CO., DIV.-THE GARRETT CORP.**
Airtemp Div., Chrysler Corp.
American Air Filter Co., Defense Products Div.
American Instrument Co., Inc.
American Machine & Foundry Co., Government Products Group
Andersen Labs.
***ARNOUX CORP.**
***ASSOCIATED TESTING LABS., INC.**
Atlantic Instrument Corp., Sub.-American Electronics, Inc.
Avien, Inc.
Barber-Colman Co.
Bar-Ray Products, Inc.
***BENDIX PRODUCTS DIV., BENDIX AVIATION CORP.**
Bendix Utica Div., Bendix Aviation Corp.
Bogue Electric Mfg., Co.
Bristol Co., The
CDC Control Services, Inc.
Carrier Corp.
Components Corp.
Consolidated Controls Corp.
Consolidated Diesel Electric Corp.
Crown Controls Co., Inc.
Dalmotor Div., Yuba Consolidated Industries, Inc.
Data-Control Systems, Inc.
Daystrom Pacific Div.-Daystrom, Inc.
Dean & Benson Research, Inc.
Electronic Control Corp.
Electronic Processes Corp. of California
Electro-Tech Equipment Co.
Ellis & Watts Products, Inc.
Emerson Electric Mfg. Co., The, Electronics & Avionics Div.
Fenwal Inc.
Fischer & Porter Co.
General Electric Co., Apparatus Sales Div.
Claud S. Gordon Co.
Gulton Industries, Inc.
Hagan Chemicals & Controls, Inc.
Hallikainen Instruments
Hamilton Standard, Div.-United Aircraft Corp.
Hesco Engrg.
Hoover Electric Co.
Illinois Testing Laboratories, Inc.
Jet-Heet, Inc.
***KEARFOTT CO., INC.**
Lear, Inc.
Leeds & Northrup Co.
Leslie Co.
Magnetic Controls Co.
Mason-Neilan
Minneapolis-Honeywell Regulator Co.-Aeronautical Div.
Minneapolis-Honeywell Regulator Co., Industrial Div.
Minneapolis-Honeywell Regulator Co., Industrial Product Group
New England Scientific Instruments Co.
Norwood Controls Unit Detroit Controls Div.
OPW-Jordan
Perkin-Elmer Corp.
Projects Unlimited Inc.
Pyrometer Instrument Co., Inc.
Arthur C. Ruge Associates, Inc.
Scientific Engrg. Labs., Inc.
Scientific Instrument Co.
Servomechanisms, Inc.
Space Corp.
Spencer Div., Metals & Controls Corp.
Standard-Thomson Corp., Clifford Mfg. Co. Div.
Stevens Mfg. Co., Inc.
Stratos, Div.-Fairchild Engine & Airplane Corp.
Sun Electric Corp., Aeronautical Div.
Temperature Engrg. Corp.
Thermo Electric Co., Inc.
Tranter Mfg., Inc.
United Aircraft Products, Inc.
United Control Corp.
United Electric Controls Co.
U. S. Science Corp., Div.-Topp Industries, Inc.
Vap-Air Aeronautical Products Div., Vapor Heating Corp.
Victory Engrg. Corp.
West Instrument Corp.
Western Design, Div.-U.S. Industries, Inc.; Santa Barbara Div.
Weston Instruments, Div.-Daystrom, Inc.
Westronics Inc.
Wilcolator Co., The
Winzen Research Inc.
Yellow Springs Instrument Co., The

TEMPERATURE MEASURING EQUIPMENT

Aero Research Instrument Co. Inc.
Aerojet-General Corp.
Airguide Instrument Co.
Allegany Instrument Co., Inc.
American Instrument Co., Inc.
***ARNOUX CORP.**
Atlantic Instrument Corp., Sub.-American Electronics, Inc.
Avien, Inc.
B G Corp., The
B & H Instrument Co., Inc.
Baird-Atomic, Inc.
Beckman & Whitley, Inc., Missile Products Div.
***BENDIX PRODUCTS DIV., BENDIX AVIATION CORP.**
Bristol Co., The
Brown Engrg. Co., Inc.
Consolidated Controls Corp.
Consolidated Diesel Electric Corp.
Curtiss-Wright Corp., Princeton Div.
Data-Control Systems, Inc.
Daystrom Pacific Div.-Daystrom, Inc.
W. C. Dillon & Co., Inc.
Electric Auto-Lite Co., The

Electronic Processes Corp. of California
Electro-Tech Equipment Co.
Epic, Inc.
Fenwal Inc.
Fischer & Porter Co.
Fisher Scientific Co.
General Electric Co., Apparatus Sales Div.
Claud S. Gordon Co.
Gray Instrument Co.
Gulton Industries, Inc.
Hagan Chemicals & Controls, Inc.
Hallikainen Instruments
Harco Labs., Inc.
Harris Refrigeration Co.
Hesco Engrg.
Illinois Testing Laboratories, Inc.
Kahn & Co., Inc.
***KEARFOTT CO., INC.**
Leeds & Northrup Co.
***LEWIS ENGRG. CO., THE**
Mason-Neilan
Mergenthaler Linotype Co.
Meters Inc.
Minco Products, Inc.
Minneapolis-Honeywell Regulator Co.-Aeronautical Div.
Minneapolis-Honeywell Regulator Co., Industrial Div.
Minneapolis-Honeywell Regulator Co., Industrial Product Group
National Beryllia Corp.
National Electronics
New England Scientific Instruments Co.
North Atlantic Industries, Inc.
Pacific Scientific Co.
Perkin-Elmer Corp.
Projects Unlimited Inc.
Pyrometer Instrument Co., Inc.
Revere Corp. of America
Rochester Mfg. Co. Inc.
Royco Instruments, Inc.
Arthur C. Ruge Associates, Inc.
Scientific Instrument Co.
Servomechanisms, Inc.
T–C Div., Dyna-Empire, Inc.
Technique Associates Div., Duncan Electric Co., Inc.
Thermo Electric Co., Inc.
Thwing-Albert Instrument Co.
Trans-sonics, Inc.
United Electric Controls Co.
Victory Engrg. Corp.
West Instrument Corp.
Weston Instruments, Div.-Daystrom, Inc.
Westronics Inc.
Winzen Research Inc.
Yellow Springs Instrument Co., The

TEMPERATURE RESISTANCE BULBS

Aero Research Instrument Co. Inc.
Allegany Instrument Co., Inc.
American Aeroparts
***ARNOUX CORP.**
Barber-Colman Co.
Bristol Co., The
Consolidated Diesel Electric Corp.
Electronic Processes Corp. of California
Electro-Tech Equipment Co.
Fisher Scientific Co.
Hallikainen Instruments
Hesco Engrg.
Illinois Testing Laboratories, Inc.
Leeds & Northrup Co.
***LEWIS ENGRG. CO., THE**
Minneapolis-Honeywell Regulator Co., Industrial Div.
Minneapolis-Honeywell Regulator Co., Industrial Product Group
New York Coil Co.
Pacific Scientific Co.
Arthur C. Ruge Associates, Inc.
Servomechanisms, Inc.
T–C Div., Dyna-Empire, Inc.
Thermo Electric Co., Inc.
Thwing-Albert Instrument Co.
Trans-sonics, Inc.
United Control Corp.
West Instrument Corp.
Weston Instruments, Div.-Daystrom, Inc.

TEMPERATURE RESISTANT BULBS
See BULBS, TEMPERATURE RESISTANT

TEMPERATURE WARNING UNITS
See WARNING UNITS, TEMPERATURE

TENSIONS, COIL WINDING

Allied Control Co., Inc.
Boulin Instrument Corp.
Coil Winding Equipment Co.
Rollan Electric Co.
T–C Div., Dyna-Empire, Inc.

TERMINAL BLOCKS

AMP Inc.
Accurate Electronics Corp., Dept. D
Adept Industries Inc.
Allied Plastics Supply Corp.
American Aeroparts
Armel Electronics, Inc.
Audio Development Co.
Automatic Electric Sales Corp.
Carmac Aviation
Century Fasteners Corp.
Cutler-Hammer Inc.
Detronic Industries
Double E Products Co.
Electrical Insulation Co., Inc.
Eljay Corp.
Emerson Plastics Corp.
Emmco Plastic Fabricators – Div.-E. M. McCarthy Machine Co.
Fisher & Crome
General Electric Co., Apparatus Sales Div.
General Products Corp.
Gordon Enterprises
ITT-Kellogg
Janco Corp.
Jodee Plastics Co.
Howard B. Jones Div.-Cinch Mfg. Corp.
Keystone Electronics Corp.
Kulka Electric Corp.
Lerco Electronics, Inc.
Litton Industries, U.S. Engrg. Co., Div.
Thomas J. Long, Inc.
Molding Corp. of America
National Pneumatic Co., Inc., Holtzer-Cabot Divs.
National Tel-Tronics Corp.
Piasecki Aircraft Corp.
Pilgrim Products Inc.
Milton Ross Metals Co., The
St. Regis Paper Co., Panelyte Div.
Silicone Insulation, Inc.
Slip Ring Co. of America
States Co., The

TERMINAL BOARDS

AMP Inc.
Accurate Electronics Corp., Dept. D
Adept Industries Inc.
Aerolite Electronics Corp.
Alac, Inc.
Alden Products Co.
Allied Plastics Supply Corp.
Amatom Electronic Hardware Co. Inc.
American Aeroparts
Anchor Metal Spinning Co., The
Armel Electronics, Inc.
Cambridge Thermionic Corp.
Cleveland Metal Specialties Co., Electronics Div.
Comco Plastics Inc.
Cutler-Hammer Inc.
Dalmore Corp.
Detronic Industries
Double E Products Co.
Electrical Insulation Co., Inc.
Electro-Mechanical Products Co.
Eljay Corp.
Emerson Plastics Corp.
Emmco Plastic Fabricators – Div.-E. M. McCarthy Machine Co.
Engineered Plastics, Inc.
***ETS-HOKIN & GALVAN**
Fidelity Amplifier Co.
Fisher & Crome
General Electric Co., Apparatus Sales Div.
General Products Corp.
Globe Electrical Mfg. Co.
Gordon Enterprises
Hampden Mfg. Co., Inc.
Hobson Brothers, Inc.
Jodee Plastics Co.
Johns-Manville
Howard B. Jones Div.-Cinch Mfg. Corp.
Keystone Electronics Corp.
Kulka Electric Corp.
Lerco Electronics, Inc.
Litton Industries, U.S. Engrg. Co., Div.
Thomas J. Long, Inc.
Molding Corp. of America
National Pneumatic Co., Inc., Holtzer-Cabot Divs.
National Tel-Tronics Corp.
Panel Engrg. Corp.
Penn Fibre & Specialty Co., Inc.
Piasecki Aircraft Corp.
Pilgrim Products Inc.
Printronics Corp.
Rimak, Inc.
Milton Ross Metals Co., The
Russell Reinforced Plastics Corp.
St. Regis Paper Co., Panelyte Div.
Silicone Insulation, Inc.
Slip Ring Co. of America
States Co., The
Tri-Dex Co.
Vector Electronic Co.
Virginia Electronics Co., Inc.

TERMINAL LUG SWAGGERS

AMP Inc.
Alac, Inc.
Alden Products Co.
Amatom Electronic Hardware Co. Inc.
American Aeroparts
Cambridge Thermionic Corp.
Electrical Insulation Co., Inc.
Keystone Electronics Corp.
Kulka Electric Corp.
Lerco Electronics, Inc.
Litton Industries, U.S. Engrg. Co., Div.
Edward Segal
Thompson-Bremer & Co.
Waldom Electronics Inc.

TERMINAL STRIPS

AMP Inc.
Accurate Electronics Corp., Dept. D
Aerolite Electronics Corp.
Alac, Inc.
Alden Products Co.
Allied Plastics Supply Corp.
Amatom Electronic Hardware Co. Inc.
American Aeroparts
American Printed Circuits Co., Inc.
Armel Electronics, Inc.
Automatic Electric Sales Corp.
Birnbach Radio Co., Inc.
Cambridge Thermionic Corp.
Carmac Aviation
Century Fasteners Corp.
Cutler-Hammer Inc.
Detronic Industries
Double E Products Co.
Duralith Corp.
Electric Terminal Corp.
Electrical Insulation Co., Inc.
Electro-Tech Equipment Co.
Eljay Corp.
Emerson Plastics Corp.
Emmco Plastic Fabricators – Div.-E. M. McCarthy Machine Co.
Fisher & Crome
General Products Corp.
Gladding, McBean & Co.
Helipot Div.-Beckman Instruments Inc.
Hobson Brothers, Inc.
ITT-Kellogg
Industrial Engravers, Inc.
Jodee Plastics Co.
Howard B. Jones Div.-Cinch Mfg. Corp.
Kulka Electric Corp.
Lerco Electronics, Inc.
Litton Industries, Inc.
Litton Industries, U.S. Engrg. Co., Div.
Thomas J. Long, Inc.
Molding Corp. of America
National Pneumatic Co., Inc., Holtzer-Cabot Divs.
National Tel-Tronics Corp.
North Electric Co.
Pilgrim Products Inc.
Milton Ross Metals Co., The
St. Regis Paper Co., Panelyte Div.
Sangamo Electric Co.
Sealectric Switch & Relay Corp.
Silicone Insulation, Inc.
Slip Ring Co. of America
Stanley-Judd Div.-The Stanley Works
Teiner Engrg. Corp.
Tri-Dex Co.
Vector Electronic Co.
Waldom Electronics Inc.
Westline Products Div., Western Lithograph Co.

TERMINALS

a. Hermetically Sealed
aa. High Pressure Electric
b. Miniature & Subminiature
c. Snap
d. Solderless
e. Standoff
f. Wire & Cable

AMP Inc., a, b, d, f.
Accurate Electronics Corp., Dept. D, b, d, e.
Alac, Inc., b, d, e.
Alden Products Co., b.
All Specs Corp., b, f.
Alpine Electronic Components, Inc., b, d, e.
Amatom Electronic Hardware Co. Inc., b, e, f.
American Aeroparts, c, f.
Armel Electronics, Inc., b, e.
Atmo Seal Co., a.
B G Corp., The
Baldwin Mfg. Co. Inc., The
Best Aircraft Corp., f.
Birnbach Radio Co., Inc., b, e, f.
Burndy Corp., Omaton Div., b, d, f.
Cambridge Thermionic Corp., b, e.
***CANNON ELECTRIC CO.**, b, e.
Carborundum Co., Latrobe Plant, Refractories Div., a, b, e.
Century Fasteners Corp., b, d, f.
Ceramaseal, Inc., a, e.
Cole-Hersee Co., d, f.
Dalmore Corp., e.
Dante Electric Mfg. Co., d, f.
Diamonite Products Mfg. Co., e.
Electric Terminal Corp., f.
Emmco Plastic Fabricators – Div.-E. M. McCarthy Machine Co.
Erie Resistor Corp., e.
Frenchtown Porcelain Co., a, b.
Freeman Co., The, f.
Fusite Corp., a, b, e.
Garde Mfg. Co., a, b, d, e.
Gladding, McBean & Co., a, e.
Goe Engrg. Co., b, e.
Hallett Mfg., Co., f.
Harco Labs., Inc., f.
Hobson Brothers, Inc., d.
Holex, Inc., a.
Hollingsworth Co., Solderless Terminal Div., d.
Janco Corp., f.
Javex Electronics, d.
Joclin Mfg. Co., a, b, d, e, f.
Howard B. Jones Div.-Cinch Mfg. Corp.

Kennedy Aircraft Supply Co., f.
Keystone Electronics Corp., b, d, e.
Kulka Electric Corp., f.
Lerco Electronics, Inc., a thru f.
Litton Industries, Inc., b thru e.
Litton Industries, U.S. Engrg. Co., Div., b, e, f.
Livingston Electronic Corp., a.
Lundey Associates Inc., a, b, d, e.
Malco Mfg. Co., b thru f.
Manger Electric Co., b, d.
***Mc CORMICK SELPH ASSOCIATES**, a, aa.
J. E. Menaugh Co., f.
Mercury Air Parts Co., Inc., b.
Microdot Inc., b, f.
Minnesota Mining & Mfg. Co., a.
Mitronics Inc., a.
Molding Corp. of America, a, b, e.
Frank W. Morse Co., f.
National Coil Co., b.
National Tel-Tronics Corp., e.
Networks Electronic Corp., a, b, e.
North Electric Co., a, b, d, f.
Pacific Cut Washer Co., b, d.
Pilgrim Products Inc., b, e, f.
Rimak, Inc., b thru e.
Milton Ross Metals Co., The, a, b, e, f.
Servwell Products Co., d.
Silicone Seals, Inc., a, e.
C. Sjoberg & Son, b, d, f.
Sphere Co. Inc., The, a, b, e.
Stanley-Judd Div.-The Stanley Works, c, d, f.
Edwin B. Stimpson Co., Inc., f.
Strat-o-Seal Mfg. Co., a, b, e.
Thompson-Bremer & Co., f.
Torwico Electronics, Inc., a.
Triad Transformer Corp., a.
Tri-Point Plastics Inc., e.
Vector Electronic Co., b, d, e.
Waldom Electronics Inc., d, f.
Warren Components, Div. El-Tronics, Inc., a.
Wesrep Corp., b.
Winchester Electronics, Inc., a thru e.
Zierick Mfg. Corp., c, f.

TERMINATIONS

AMP Inc.
Alford Mfg. Co.
Ceramaseal, Inc.
Diamond Antenna & Microwave Corp.
Empire Products Sales Corp.
Entron, Inc.
***ETS-HOKIN & GALVAN**
Lundey Associates Inc.
Manger Electric Co.
Meridian Metalcraft, Inc.
Microlab
Omega Labs., Inc.
Portchester Instrument Corp.
Radar Design Corp.
Sperry Microwave Electronics Co., Div.-Sperry Rand Corp.
Weinschel Engrg.

TEST CHAMBERS, ENVIRONMENTAL

American Instrument Co., Inc.
American Research Corp.
Anchor Specialty Mfg. Co. Inc.
***ASSOCIATED TESTING LABS., INC.**
Astravac Corp.
Atlas Engrg. Corp.
Avtron Mfg., Inc.
Bell Aircraft Corp., Niagara Frontier Div.
Blue M Electric Co.
CDC Control Services, Inc.
Carrier Corp.
Chicago Bridge & Iron Co.
Cincinnati Sub Zero Products
Conrad, Inc.
Consolidated Electrodynamics Corp., Rochester Div.
Delta Design Engineers, Inc.
Environmental Equipment Co.
G. W. Galloway Co.
Gardner Laboratory, Inc.
General Testing Labs., Inc.
Guardite Co., Div. of American Marietta Co.
Paul Hardeman, Inc.
Harris Refrigeration Co.
Haskel Engrg. & Supply Co.
High Vacuum Equipment Corp.
Hughes Tool Co., Aircraft Div.
Hull Corp.
Huppert, K. H., Co.
Instruments Div.-Philips Electronics, Inc.
International Radiant Corp.
Jamison Cold Storage Door Co.
Metal Fabricators Corp.
Missimers Inc.
John Mohr & Sons
Murphy & Miller Inc.
NRC Equipment Corp.
Newbrook Machine Corp.
Pittsburgh-Des Moines Steel Co.
Project Fabrication Corp.
Sandberg-Serrell Corp.
Scientific Engrg. Labs., Inc.
Space Corp.
Standard Cabinet Co.
State Testing Lab. Inc.
F. J. Stokes Corp.
Temperature Engrg. Corp.
Tenney Engrg., Inc.
Washington Technological Associates Inc.
Webber Engrg. Corp.

TEST CHAMBERS, FLIGHT SIMULATION

American Machine & Foundry Co., Government Products Group
American Research Corp.
Atlas Engrg. Corp.
Bell Aircraft Corp., Niagara Frontier Div.
Bendix Products Div.-Missiles, Bendix Aviation Corp.
A. Biederman, Inc.
Bulow Electric Co.
CDC Control Services, Inc.
California Technical Industries, Div.-Textron Inc.
Conrad, Inc.
Epic, Inc.
General Testing Labs., Inc.
Guardian Electric Mfg. Co.
Guardite Co., Div. of American Marietta Co.
Paul Hardeman, Inc.
Hughes Tool Co., Aircraft Div.
International Radiant Corp.
Missimers Inc.
NRC Equipment Corp.
Newbrook Machine Corp.
Pittsburg-Des Moines Steel Co.
Project Fabrication Corp.
Raytheon Mfg. Co., Government Equipment Div.
Rototest Labs., Inc.
Royal Industries, Inc.
Scientific Engrg. Labs., Inc.
Smith-Morris Corp.
F. J. Stokes Corp.
Temperature Engrg. Corp.
Tenney Engrg., Inc.
Thompson-Ramo-Wooldridge Products Co., The

TEST EQUIPMENT

a. **Accelerator**
b. **Altitude Simulating**
c. **Aural**
d. **Aviation**
e. **Centrifuge**
f. **Combustion**
g. **Electrical**
h. **Electronic**
i. **Environmental**
j. **Flight**
k. **Humidity**
l. **Hypersonic**
m. **Ignition**
n. **Impact**
o. **Microwave**
p. **Oxygen System**
q. **Pneumatic**
r. **Temperature**
s. **Vibration**

***AC ELECTRONICS DIV., GENERAL MOTORS CORP.**, h.
ACF Industries Inc.
Accessory Controls & Equipment Corp., q.
Actuation Research Corp., q.
Advanced Electronics, Inc., g, h, r, s.
Aero Research Instrument Co. Inc., r.
Aerodex, Inc., d.
Aeroflex Corp., The, Aeroflex Labs. Div., b, g, h, i.
Aerojet-General Corp., a, b, d, f, r.
Aerolab Development Co., d, j.
Aeroscience, Inc.
Air Logistics Corp., g, h.
Airborne Instruments Lab., Div.-Cutler-Hammer, Inc., h, o.
Aircom Inc., o.
Aircom Inc. of New Jersey, o.
Aireco, Inc., i, k, r.
Airguide Instrument Co., k.
Airpax Electronics Inc. Seminole Div., d, g, h.
Airtron Inc., Div.-Litton Industries, o.
Airtronics International Corp.
All American Tool & Mfg. Co., s.
Allegany Instrument Co., Inc., h.
Allen Tool Corp.
Allied International Co., d, h.
Amelco, Inc., g, h.
Amerac Inc., o.
American Bosch Arma Corp., g, h.
American Electronics, Inc., Taller & Cooper Div., h.
American Felt Co., i, k, q, r.
American Instrument Co., Inc., h, i, k, r.
American Machine & Foundry Co., Government Products Group, a, e, g, h, i.
American Measurement & Control, Inc., g, h.
American Research Corp., b, i, k, r.
American Research & Mfg. Corp., s.
Amthor Testing Instrument Co., Inc., p.
Anaheim Electronics Co., Inc., h.
Analogue Controls, Inc., h.
Anchor Specialty Mfg. Co. Inc., a, b, d, e, g thru k, m, o thru s.
Andersen Labs., g, h.
Applied Science Corp. of Princeton, d, j.
Arde-Portland, Inc., b, l, r.
Arenberg Ultrasonic Lab., Inc., h.
***ARNOUX CORP.**, r.
Aro Equipment Corp., p.
Associated Engineers, Inc., d, f, g, h, j, m, q, r.
Associated Research, Inc., g, h.
***ASSOCIATED TESTING LABS., INC.**, a, b, c, e thru i, k, m, n, q, r, s.
Astravac Corp., b, i, j, k, r, s.
Atlas Coil Inc., h.
Atlas Precision Products, Co., d, g, h.
Automation Instruments Inc., h.
***AVCO MFG. CORP., CROSLEY DIV.**, h.
Avo Ltd., g, h.
Avtron Mfg., Inc., d, g, h, i.
B & F. Instruments, Inc., j, s.
B G Corp., The, m.
B & H Instrument Co., Inc., d, r.
Babcock Radio Engrg., Inc., j.
Baird-Atomic, Inc., h.
Ballantine Labs., Inc., h.
Barker & Williamson Inc., h.
Barry Controls Inc., d, g, h, i, n, s.
Basic Tool Industries, Inc., r, s.
Rex Bassett, Inc., h.
Bearing Inspection, Inc.
Beckman Instruments, Inc., Berkeley Div., o.
Beckman-Spinco Div., e, i.
Belock Instrument Corp., j.
Bendix Aviation Corp., Eclipse-Pioneer Div.
Bendix Aviation Corp., Pioneer-Central Div., d, p.
Bendix Aviation Corp., Red Bank Div., g thru j, o
Bendix Aviation Corp., York Div., g, h, j, o.
***BENDIX PRODUCTS DIV., BENDIX AVIATION CORP.**, h.
Bendix Products Div.,-Missiles, Bendix Aviation Corp., a, f, g.
Bendix Radio Div., Bendix Aviation Corp., h, o.
Bendix Utica Div., Bendix Aviation Corp., g, h, q.
Beva Labs, Inc., h.
A. Biederman, Inc., a, f, g, h, p.
Bliss Electronic Corp., h.
Blue M Electric Co., i, k, r.
Bogue Electric Mfg., Co., g.
Briggs Associates, Inc., h, s.
Bristol Co., The, q, r.
Brown Engrg. Co., Inc., h, q.
Brush Instruments, Div.-Clevite Corp., a, h, i, r.
Bulow Elecric Co., a.
Burr-Brown Research Corp., h.
Burroughs Corp., h.
Burton-Rodgers, Inc., b, d.
CDC Control Services, Inc., b, d, i, j, k, q, r, s.
CGS Labs., Inc., h.
California Technical Industries, Div.-Textron Inc., b, g, h, j, o.
Captive Seal Corp., q.
Centronix Inc., g, h.
Chadwick-Helmuth Co., i.
John Chatillon & Sons, n.
Chemalloy Electronics Corp., o.
Chicago Aerial Industries, Inc., i.
Cincinnati Sub-Zero Products, b, h, i, k, r.
Conrad, Inc., b, g, i, j, k, r, s.
Consolidated Avionics Corp., c, e.
Consolidated Diesel Electric Corp., d, g, q, r.
Consolidated Diesel Electric Corp., Test Equip. Div., d, f.
Consolidated Diesel Electric Corp., Western Div., g, q.
Consolidated Electrodynamics Corp., a, d, h, i, j, n, s.
Continental Technical Service, Inc., b, d, g, h, j, q.
Control Engrg. Co., Div. Jervis B. Webb Co., d, g, h, q.
Cooper Development Corp., Sub.-Marquardt Aircraft Co., h, j, o, q.
Cornelius Co., The, Aero Div., q.
Cubic Corp., h, o.
Curtiss-Wright Corp.-Princeton Div., l, r.
Datran Electronics, Div.-Mid-Continent Mfg. Co., Inc., h.
Daven Co., The, g, h, l, r.
Davenport Mfg. Co., g, h.
Daystrom Pacific Div.-Daystrom, Inc., d, g, h.
Dayton Aviation Radio & Equipment Corp., h.
Delsen Corp., g.
Delta Design Engineers, Inc., l, r.
Demornay-Bonardi, o.
Development Engrg. Co., Inc., l.
Diamond Antenna & Microwave Corp., o.
DI-AN Controls, Inc., h.
DIT-MCO, Inc., Electronics Div., d, g, h.
Divco-Wayne Electronics, Div.-Divco-Wayne Corp., g, h.
Diversey Engrg. Co., f.
Donner Scientific Co., a, h.
Douglas Microwave Co., Inc., o.
Dresser Industries, Inc., g, h.
Dymec Inc., o.
Dynamic Devices, Inc., p, q.
Dytronics Co., h.
Eastern Specialty Co., The, g, h.
Edgerton, Germeshausen & Grier, Inc., g, h, o
Eldorado Electronics, h.
Electro Instruments, Inc., h.
Electro Precision Corp., h.
Electromath Corp., g, h.
Electro-Mechanical Products Co., b, g, h.
Electronic Communications, Inc., h, o.
Electronic Tube Corp., h.
Electronics Div., Van Norman Industries Inc., h, o.
Electro-Tech Equipment Co., g, h, r.
Elsin Electronics Corp., h.
Emerson Electric Mfg. Co., The, Electronics & Avionics Div., d, g, h, j, o.
Empire Products Sales Corp., h, o.
Endevco Corp., i, s.
Engrg. Associates, g, h, o
Environmental Equipment Co., b, i, k, r, s.
Epic, Inc., k, r, s.
Ewald Instruments, i, s.

FXR, Inc., h, o
Fairchild Astrionics Div., Fairchild Engine & Airplane Corp., g, h, o
Federal Mfg. & Engrg. Corp., d, h, o.
Federal Products Corp., f, g.
Fisher & Porter Co., h, i, q, r.
Fisher Research Lab., Inc., h, s.
Fisher Scientific Co., e, f, r.
Flow Corp., h.
John Fluke Mfg. Co., Inc., h.
Foto-Video Labs., Inc., h.
Furane Plastics, Inc., g.
Gaertner Scientific Corp., The, s.
Gardner Laboratory, Inc., i, k.
General Communication Co., h. o.
General Electric Co., Apparatus Sales Div., d, g, l.
General Electric Co., Missile & Space Vehicle Dept., g, h.
General Electric Co., X-Ray Dept., h.
General Testing Labs., Inc., a, e, g thru k, m, n, q, r, s.
Genisco, Inc., a, e, i, s.
Genisco, Inc., Instrument Div., a.
Giannini Plasmadyne Corp., b, l.
Gilfillan Bros.,Inc., h.
Gordon Enterprises, d, h, s.
Green Rectifier Co., d, g.
Greer Hydraulics, Inc., g, h, i, q.
Grieve-Hendry Co., Inc., r.
Guardian Electric Mfg. Co., d, g.
Guardite Co., Div. of American Marietta Co., b, i, k, r.
Guided Missile Div.- De Havilland Aircraft of Canada, Ltd., d, g, h.
Gulton Industries, Inc., s.
Hallamore Electronics Co., b, j.
Hallicrafters, h, o.
Hallikainen Instruments, r.
Hamilton Standard, Div.-United Aircraft Corp., g, l.
Harco Labs., Inc., r.
Paul Hardeman, Inc.
Harris Refrigeration Co., b, i, k, r.
Haskel Engrg. & Supply Co., b, q, r.
Hazeltine Electronics Div.-Hazeltine Corp., h, o
Helipot Div.-Beckman Instruments Inc., g.
Hevi-Duty Electric Co., f, r.
Hewlett-Packard Co., h, o.
Hicks Corp., The, e, i.
High Vacuum Equipment Corp., b.
High Voltage Engrg. Corp., a, i.
E. Vernon Hill & Co., i, k.
Carl Hirschmann Co., Inc., s.
Hoffman Labs. Div., Hoffman Electronics Corp., h.
C. G. Hokanson Co., Inc., i, k, r.
Hufford Corp., The, s.
Hughes Tool Co., Aircraft Div., h.
Hull Corp., i.
Huppert, K. H., Co., r.
Walter J. Hyatt Co., The, o.
Hycon Mfg. Co., e.
I-L-S Instrument Div., The Meriam Instrument Co., h.
I-T-E Circuit Breaker Co., o.
ITT-Kellogg, g.
Illinois Testing Laboratories, Inc., r.
Impact-O-Graph Corp., The, h, m, s.
Industrial Control Co., h.
Industrial Engrg. Corp., b, g, h, q.
Industrial Instruments Inc., h.
Industrial Test Equipment Co., h.
Inertia Switch, Inc., n.
Infrared Industries Inc., h.
Insco Co., Div.-Barry Controls Inc., s.
Instrumentation Div.-Ampex Corp., j, l
Instruments For Industry, Inc., h, o.
Intercontinental Dynamics Corp., b, d, h, j, q.
International Equipment Co., f.
International Fermont Machinery Co., Inc., g.
International Pump & Machine Works, b.
International Radiant Corp., b, i, k, r.
Itemco, Inc., b, i, k, r.
J-V-M Microwave Co., o.
Jan Hardware Mfg. Co., Inc., h, i, n.
J. W. Johnson & Co., Inc., s.
Kahn & Co., Inc., g, h, k, q, r, s.
Kaiser Aircraft & Electronics, Div.-Kaiser Industries Corp., b, h, i.
Kauke & Co., j.
Kay Electric Co., o, s.
***KEARFOTT CO., INC.**, d, g thru j, o, q, r.
***KEARFOTT CO., INC., MICROWAVE DIV.**, o
Keithley Instruments, Inc., h.
Kinney Mfg. Div., The New York Air Brake Co., b, i.
Kingston Electronics-Div.-Kingston Industries Inc.,h.
Knapp Inc., g.
L. A. B. Corp., i, n, s.
Lampkin Labs., Inc., M. R. Div., h.
Land-Air Inc., h, j, s.
La Roe Instruments, Inc., h.
Lavoie Laboratories Inc., h.
Leach Corp., g.
Lear, Inc., a, d, g, h, j.
Lear, Inc., Grand Rapids Div., d, h.
Leeds & Northrup Co., r.
Leetronics, Inc., h.
Leland Airborne Products, Div.-American Machine & Foundry Co., g, h.
***WALLACE O. LEONARD, INC.**, j.
Levinthal Electronic Products, Inc., h, o
***LEWIS ENGRG. CO., THE**, r.
Lieco, Inc., o.
Ling Electronics, Inc., i, s.
Liquidometer Corp., The, h.
Lumatron Electronics, Inc., h.
MB Mfg. Co., s.
Magee-Brolle & Associates., l.
Magnasync Mfg. Co., Ltd., h.
Manson Labs., Inc., h. o.
Marconi Instruments, g, h.
Marotta Valve Corp., q.
Marquardt Aircraft Co., g, h, q.
Massa Div.-Cohu Electronics, Inc., h.
Mast Development Co., Inc., i.
W. L. Maxson Corp., The, d.
Measurements Div., McGraw Edison Co., h.
Meletron Corp., q.
Mergenthaler Linotype Co., h.
Merz Engrg., Inc.
Metal Fabricators Corp.
Metronix, Inc., Sub.-Assembly Products, Inc., h.
Micrometrical Mfg. Co., h, s.
Millitest Corp., h.
Mine Safety Appliances Co., k.
Minneapolis-Honeywell Regulator Co.-Aeronautical Div., d, g, h, j, q.
Minneapolis-Honeywell Regulator Co., Boston Div., g, h.
Minneapolis-Honeywell Regulator Co.-Davies Labs. Div., j, s.
Minneapolis-Honeywell Regulator Co., Industrial Product Group, b, g, h, i, q, r.
Minneapolis-Honeywell Regulator Co., Ordnance Div., h, j, k.
Miratel, Inc., h.
Missimers Inc., b, f, i, k, r.
Monogram Precision Industries., h, o.
Moran Instrument Corp., j.
Motorola Inc., Military Electronics Div., g, h, o.
Heinz Mueller Eng. Co. Inc., g.
Multi-Amp Corp., g, h.
Murphy & Miller Inc., b, i, k, r.
NRC Equipment Corp., b, i.
George L. Nankervis Co., d, g, h, m, p thru s.
Narda Microwave Corp., The, o.
National Electronics., g, r.
National Instrument Laboratories, Inc., g, h, p.
National Spectrographic Labs., Inc., g, h.
National Welding Equipment Co., p.
Networks Electronic Corp., b, g, h, i, k, r, s.
New England Scientific Instruments Co., g, k.
Non-Linear Systems, Inc., h.
North Atlantic Industries, Inc., h.
North Electric Co., g, h.
North Hills Electric Co., Inc., g, h.
Nuclear Products-Erco Div.-ACF Industries., h.
Omega Labs., Inc., o.
Orbitron Co., Inc., h.
Otis Elevator Co., Electronic Div., g.
Oxygen Equipment & Service Co., p.
PCA Electronics Inc., a, g, h.
Pacific Scientific Co., r, s.
Paco Electronics Co., Inc., h.
Perkin-Elmer Corp., r.
Peschel Electronics, Inc., g, h.
Philco Corp., Government & Industrial Div., g, h, o.
Photron Instrument Co., h.
Physics Research Laboratories, Inc., g.
Polarad Electronics Corp., g, h, o.
Polytechnic Research & Development Co., Inc., o.
Power-Tronic Systems Inc., g, h, j.
Precise Development Corp., g, h, m.
Precision Apparatus Co., Inc., h.
Precision Thermometer & Instrument Co., k, r.
Pre-Flite Industries Corp.-Sub.-Avco Corp., q.
Projects Unlimited Inc., g, h, r.
Puritan Compressed Gas Corp., Aviation Div., p.
Pyrometer Instrument Co., Inc., r.
Radar Design Corp., o.
Radex Corp., h.
Radiaphone Co. Inc., h.
Radiation, Inc.
Ramo-Wooldridge Div., Thompson Ramo Wooldridge of Calif.
Raymond Engrg. Lab., Inc., o.
Reflectone Corp., The, g, h.
Republic Aviation Corp., d, g, h, j.
Resdel Engrg. Corp., h, o.
Rese Engrg., Inc., h.
Research Appliance Co., f, i, m.
Rototest Labs., Inc., s.
Rayco Instruments, Inc., r.
Rucker Co., The, a, e, i, q.
Arthur C. Ruge Associates, Inc., r.
Rutherford Electronics Co., h.
Sage Labs., Inc., o.
Sandberg-Serrell Corp., d, r.
Sanders Associates, Inc., d.
Schaevitz Engrg., a, e, s.
Schaffer Air Industries, Inc., d, g, p, q.
Scientific Engrg. Labs., Inc., b, h, i, k, r.
Scientific Instrument Co., k, r.
Scientific-Atlanta, Inc., o.
H. H. Scott, Inc., s.
Sequoia Wire & Cable Co.-Div.-Mandrel Industries, Inc., d, h.
Shallcross Mfg. Co., g.
Simpson Electric Co., g, h, r.
Skyline Electric & Mfg. Co., g, h, i, k, r.
Slaughter Co., Inc., g, h.
Smith-Morris Corp.
Solartron Inc., g, h, j.
Space Corp., b, i, j, s, x.
Specialties, Inc., j, q.
Sperry Microwave Electronics Co., Div.-Sperry Rand Corp., h, o.
Stainless Inc., e.
Standard Cabinet Co., b, i, k, r.
Stanley Aviation Corp., j.
State Testing Lab. Inc.
States Co., The, g.
Stavid Engrg., Inc., o.
Stearns-Roger Mfg. Co., i, k, p, q, r.
F. J. Stokes Corp., b, i.
Stromberg-Carlson Div.-General Dynamics Corp., d, g, h.
Suffolk Products Corp., g, h.
H. W. Sullivan Ltd., g, h.
Sun Electric Corp., Aeronautical Div., d, f, g, h, m, p, q, s.
Surface Combustion Corp., i.
Systems Inc., h, o.
Systron Corp., h.
Tamar Electronics, Inc., h, o.
Tapco Group, Thompson-Ramo-Wooldridge Inc., h, o.
Technical Apparatus Builders, g, h.
Technique Associates Div., Duncan Electric Co., Inc., g, r.
Technitrol Engrg. Co., h.
Telechrome Mfg. Corp., h, o.
Telerad Mfg. Corp., h, o.
Tel-Instrument Electronics Corp., h, s.
Temperature Engrg. Corp., g thru k, r.
Tenney Engrg., Inc., b, d, f, i, j, k, m, r.
Thermo Electric Co., Inc., r.
Theta Instrument Corp., d, g, h.
Thiokol Chemical Corp., h.
Thomas Electronics, Inc., g, h.
Thompson-Ramo-Wooldridge Products Co., The, h.
Thwing-Albert Instrument Co., r.
Topatron, Inc., s.
Towaco Electronics Co., f, g.
Traid Corp., j.
Transco Products, Inc., h, o.
Transonic, Inc.,h.
Trans-Sonics, Inc., r.
Triplett Electrical Instrument Co., g. h.
Tucson Instrument Corp., g, h.
Turbo Machine Co., o.
Twenty-First Century Electronics, Inc., h.
***ULTRA-VIOLET PRODUCTS, INC.**,p.
Unit Process Assemblies, Inc., h.
United Aircraft Products, Inc., q, r.
United Electric Controls Co., b, d, g, i, k, p, q, r.
United Mfg. Co., Div., The W. L. Maxson Corp., d, g, q.
U. S. Science Corp., Div.-Topp Industries, Inc., d, g, h, q.
Universal Dynamics Corp., k.
Vard Inc., g, h, q, s.
Varian Associates, h, o.
Vicon Corp., h.
Victory Engrg. Corp., r.
Virginia Electronics Co., Inc., h.
Waldorf Electronics. Div.-F. C. Huyck & Sons, d, h.
Wallace & Tiernan Inc., q.
Waltham Electronics Corp., h.
Waltham Engrg. Corp., o.
Washington Technological Associates Inc., a, b, d, g, thru k, q, s.
Waste King Corp., Technical Products Div., j.
Waterman Products Co., Inc., g, h.
Waugh Engrg. Co., j.
Waveline, Inc., o.
Webber Engrg. Corp., b, i, k, r.
Webcor, Inc., Government Div., h, q.
Weinschel Engrg., h, o.
Western Gear Corp., s.
Westinghouse Electric Corp., g.
Weston Instruments, Div.-Daystrom, Inc., g, h.
Westronics Inc., h, i, r.
Yellow Springs Instrument Co., The, r.

TEST LEADS

Aerolite Electronics Corp.
Alden Products Co.
Amatom Electronic Hardware Co. Inc.
Anchor Specialty Mfg. Co. Inc.
Birnbach Radio Co., Inc.
Bud Radio Inc.
Devcon Corp.
Chicago Aerial Industries, Inc.
Eastern Specialty Co., The
Electro-Mechanical Products Co.
Electro-Tech Equipment Co.
First Electronics Corp., The
General Cement Mfg. Co., Div.-Textron, Inc.
Hamilton Standard, Div.-United Aircraft Corp.
Industrial Transformer Corp.
Javex Electronics
Keystone Electronics Corp.
Mutron Corp.
National Electronics
Paul Nurches Co.
Paco Electronics Co., Inc.
Paraplegics Mfg. Co., Inc.
Pomona Electronics Co., Inc.
Precise Development Corp.
Precision Apparatus Co., Inc.
Projects Unlimited Inc.
Sencor Corp.
Simpson Electric Co.
Slaughter Co., Inc.
Specialty Engrg. H Electronics Co.
Stanley-Judd Div.-The Stanley Works
Technical Apparatus Builders
Triplett Electrical Instrument Co.
Western International Co.
Whitaker Cable Corp.

TEST SETS, RADAR
See RADAR TEST SETS

TEST STANDS
See STANDS, TEST

TEST STANDS, STATIC

Acco Equipment Div., American Chain & Cable Co., Inc.
Aerojet-General Corp.
Allegany Instrument Co., Inc.
Associated Engineers, Inc.
Astronautics Engrg. Co.
Avtron Mfg., Inc.
Barry Controls Inc.
Basic Tool Industries, Inc.
Bendix Utica Div., Bendix Aviation Corp.
Bobrick Mfg. Corp.
Champion Co., The
Chicago Aerial Industries, Inc.
C. B. Christiansen Co.
Colonial Aircraft Corp.
Continental Technical Service, Inc.
Control Engrg. Co., Div. Jervis B. Webb Co.
Devco Engrg. Inc.
Diversey Engrg. Co.
Dresser Industries, Inc.
Dynametrics Corp.
Electro-Mechanical Products Co.
Federal Mfg. & Engrg. Corp.
G. W. Galloway Co.
Greer Hydraulics, Inc.
Paul Hardeman, Inc.
Hardman Tool & Engrg. Co.
Hoover Electric Co.
Huffard Corp., The
Industrial Engrg. Corp.
Kaiser Steel Corp., Fabricating Div.
Land-Air Inc.
Lear, Inc.
Lear, Inc., Grand Rapids Div.
Leland Airborne Products, Div.-American Machine & Foundry Co.
Machine Products Div., New Haven Trap Rock Co.
Metal Fabricators Corp.
***MIRAX CHEMICAL PRODUCTS CORP., ELECTRO-MECHANICAL PRODUCTS DIV.**
Multi-AMP Corp.
Newbrook Machine Corp.
Performance Measurements Co.
Piasecki Aircraft Corp.
Projects Unlimited Inc.
Rucker Co., The
Sequoia Wire & Cable Co.-Div.-Mandrel Industries, Inc.
Smith-Morris Corp.
Space Corp.
Squiers Gage Co.
Sun Electric Corp., Aeronautical Div.
Thiokol Chemical Corp.
Twin Coach Co., Aircraft-Missiles
United Aircraft Products, Inc.
Vard Inc.
Washington Technological Associates Inc.
Western Gear Corp.
Westronics Inc.

TEST UNITS, ACCELERATION, MILITARY

American Machine & Foundry Co., Government Products Group
***ASSOCIATED TESTING LABS., INC.**
Electronic Communications, Inc.
Epic, Inc.
Genisco, Inc.
Hycon Mfg. Co.
Metal Fabricators Corp.
Rucker Co., The

TESTERS
a. Amplitude Linearity
b. Automatic Tube
c. Battery
d. Cable
e. Capacitor
f. Cathode Ray Tube
g. Circuit
h. Coat Thickness
i. Coil
j. Color Infra-Red
k. Continuity
l. Crystal Testing
m. Diode
n. Distortion
o. Induction
p. Insulation
q. Insulation Breakdown
r. Meter
s. Microwave
t. Theodolites

Acme Electric Corp., q.
Airborne Instruments Lab., Div.-Cutler-Hammer, Inc., l, m, s.
Aircom Inc., s.
Aircom Inc. of New Jersey, s.
Airtron Inc., Div.-Litton Industries, s.
Airtronics International Corp., d.
Allied International Co., s.
Amerac Inc., s.
American Instrument Co., Inc., h.
American Machine & Foundry Co., Government Products Group, d, g.
Anchor Specialty Mfg. Co. Inc., c, d, g, i, k, p, q.
Associated Research, Inc., d, p, q.
Atlas Precision Products, Co., b, m.
Automation Dynamics Corp., d.
Avo Ltd., g.
Avtron Mfg., Inc.
Rex Bassett, Inc., l.
Bendix Aviation Corp., Red Bank Div., s.
Bendix Aviation Corp., York Div., g.
Beva Lab., Inc., a, q.
James G. Biddle Co., h, k, p.
Bliss Electronic Corp., d, e, g, k, q.
Bogue Electric Mfg., Co., c, g.
Bracke-Seib X-Ray Co., Inc., q.
Branson Instruments, Inc., h.
Bristol Co., The, g.
Brush Instruments, Div.-Clevite Corp., a.
California Technical Industries, Div.-Textron Inc., d, g, k, q, s.
Canoga Div., Underwood Corp., s.
Carol Electronics Corp., f.
Centronix Inc., g, k.
Chemalloy Electronics Corp., s.
Christie Electric Corp., c.
Consolidated Avionics Corp., a, n, p, q.
Consolidated Diesel Electric Corp., b, k, l, m.
Control Engrg. Co., Div. Jervis B. Webb Co., c.
Cornell-Dubilier Electric Corp., e.
Curtiss-Wright Corp., Electronics Div., p, q.
Daven Co., The, l, n.
Davenport Mfg. Co., p, q, r.
Dayton Aviation Radio & Equipment Corp., g, m.
Delsen Cor., p.
Demornay-Bonardi, s.
J. W. Dice Co., d.
Dit-Mco, Inc., Electronics Div., d, g, k, p.
Douglas Microwave Co., Inc., s.
Eagle Electric Mfg. Co. Inc., g.
Eastern Specialty Co., The, p.
Eder Engrg. Co., Inc., e, g, k, m.
Edgerton, Germeshausen & Grier, Inc., f, m.
Electro Instruments, Inc., e, m.
Electronic Brazing Co., q.
Electronic Communications, Inc., g, s.
Electronic Control Corp., k.
Electronic Instrument Co., Inc. (EICO), b, c, e, f, i, k.
Electronic Research Associates, Inc., m.
Electro-Tech Equipment Co., c, g, h, k, p, q.
Engrg. Associates, s.
Epic, Inc., p.
Exide Industrial Div.-The Electric Storage Battery Co., c.
FXR, Inc., s.
Federal Mfg. & Engrg. Corp., e, m.
Foto-Video Labs., Inc., a.
Freed Transformer Co. Inc., p.
General Cement Mfg. Co., Div.-Textron, Inc., g.
General Communication Co., s.
General Electric Co., Apparatus Sales Div., h, q.
General Scientific Equipment Co., b.
Good Electronic Corp., g.
Gordon Enterprises, k, t.
Green Rectifier Co., g, m.
Hi-Lo Manufacturing Corp., f.
Holtzer-Cabot Div., National Pneumatic Co., Inc., p.
Hunter Tool Co., g.
Walter J. Hyatt Co., The, s.
ITT-Kellogg, g.
Ideal Industries, Inc., g, k, q.
Indikon Co., Inc., The, e, m.
Industrial Control Co., c, e, g.
Industrial Engrg. Corp., k.
Industrial Instruments Inc., d, k, q.
Industrial Test Equipment Co., e, n thru q.
Industrial Transformer Corp., q.
Jan Hardware Mfg. Co., Inc., r.
Janco Corp., p.
Kahn & Co., Inc.
Kaiser Aircraft & Electronics, Div.-Kaiser Industries Corp., d.
Kay Electric Co., a, s.
***KEARFOTT CO., INC.**, a thru e, g, i, k, l, m, o thru t.
Korda Industries, k.
Land-Air Inc., f, g.
Lavoie Laboratories Inc., d, g, k.
Leeds & Northrup Co., p.
Lieco, Inc., s.
Magnaflux Corp., h.
Manson Labs., Inc., q.
Marion Instrument Div., r.
McLean Development Labs., Inc., g.
Monogram Precision Industries, s.
Motorola Inc., Military Electronics Div., g, s.
Multi-AMP Corp., p, q, r.
National Electronics, k, m, q, r.
North Hills Electric Co., Inc., r.
Northrop Corp., The, Nortronics Div.
PCA Electronics Inc.
Paco Electronics Co., Inc., e, f, g.
Penn Keystone Corp., c.
Perkin-Elmer Corp., t.
Peschel Electronics, Inc., d, g, k, p, q.
Philco Corp., Government & Industrial Div., f, g, m, s.
Pioneer Industries Div., Almar-York Co. Inc., f, j.
Polarad Electronics Corp., s.
Precise Development Corp., b, c, e, f, n.
Precision Apparatus Co., Inc., e, f, g.
Projects Unlimited Inc., d, k.
Radar Design Corp., s.
Republic Aviation Corp., c.
Ryan Aeronautical Co., g.
Schaffer Air Industries, Inc., g.
Seco Mfg. Co., b, k.
Shallcross Mfg. Co., c, q.
Simpson Electric Co., c, e, g, r.
Sittler Corp., g.
Skyline Electric & Mfg. Co., g, k.
Slaughter Co., Inc., a, k, p, q.
Solartron Inc., a, n.
Sorensen & Co., Inc., d, q.
Spectrol Electronics Corp., a.
Sperry Microwave Electronics Co., Div.-Sperry Rand Corp., s.
States Co., The, q, r.
Steel City Testing Machines, Inc., d.
Stromberg-Carlson Div.-General Dynamics Corp., e, i, k, m.
H. W. Sullivan Ltd., i.
Sun Electric Corp., Aeronautical Div., c, p, q, r.
B. K. Sweeney Mfg., Co., d.
Systron Corp.
Technical Apparatus Builders, c, l, m, p, q.
Technitrol Engrg. Co., m.
Telechrome Mfg. Corp., s.
Telerad Mfg. Corp., s.
Teletronics Lab. Inc., m.
Theta Instrument Corp., t.
Thomas Electronics, Inc., b, f, h.
Towaco Electronics Co., n.
Trans Electronics, Inc., m.
Transformer Design, Inc. of Milwaukee, q.
Transistor Electronics Corp., l, m.
Trans-Western Electronics, m, s.
Tricraft Products Corp., f.
Unit Process Assemblies, Inc., h.
Varian Associates, s.
Vitro Labs., c.
Waveline, Inc., s.
Weinschel Engrg., s.
Westinghouse Electric Corp., p, q.
Weston Instruments, Div.-Daystrom, Inc., b, g, h, k, p, q, r.

THERMAL CONDITIONING EQUIPMENT

Aerojet-General Corp.
***AIRESEARCH MFG. CO., DIV.-THE GARRETT CORP.**
American Air Filter Co., Defense Products Div.
***ASSOCIATED TESTING LABS., INC.**
Blue M Electric Co.
Ellis & Watts Products, Inc.
Hallicrafters
International Radiant Corp.
Marlo Coil Co.
Missimers Inc.
Pacific Scientific Co.
Stratos, Div.-Fairchild Engine & Airplane Corp.
Trane Co., The
United Aircraft Products, Inc.
U. S. Industries, Inc.
Wenzlau Engrg. Co.
York Corp.

THERMAL CONDUCTIVITY CELLS

Davis Instruments
Greenbrier Instruments Inc.
Industrial Instruments Inc.
Leeds & Northrup Co.
Mine Safety Appliances Co.
National Beryllia Corp.
Thermal Refractories Corp.
Victory Engrg. Corp.

THERMISTOR MOUNTS
See MOUNTS, THERMISTOR

THERMOCOUPLES

Advanced Electronics, Inc.
Aero Research Instrument Co. Inc.
Aerojet-General Corp.
American Aeroparts
American Instrument Co., Inc.
B G Corp., The
Barker Sales Co.
J. Bishop & Co., Platinum Works
Bristol Co., The
Conax Corp.
Consolidated Controls Corp.
Consolidated Diesel Electric Corp.
Electro-Tech Equipment Co.
Engelhard Industries, Inc.
Epic, Inc.
Fenwal Inc.
Fisher Scientific Co.
General Electric Co., Apparatus Sales Div.
Good Electronic Corp.
Claud S. Gordon Co.
Harco Labs., Inc.
High Vacuum Equipment Corp.
A. F. Holden Co., The
Illinois Testing Laboratories, Inc.
Kanthal Corp., The
Leeds & Northrup Co.
***LEWIS ENGRG. CO., THE**
Meters Inc.
Minneapolis-Honeywell Regulator Co., Industrial Div.
Minneapolis-Honeywell Regulator Co., Industrial Product Group
New England Scientific Instruments Co.
Norton Co., New Products Dept.
Pacific Scientific Co.
Papesch & Kolsted, Inc.

Philco Corp., Government & Industrial Div.
Pyrometer Instrument Co., Inc.
Revere Corp. of America
Arthur C. Ruge Associates, Inc.
Servomechanisms, Inc.
Simpson Electric Co.
E. C. Smith Mfg. Co.
Smith-Morris Corp.
T-C Div., Dyna-Empire, Inc.
Thermo Electric Co., Inc.
Thwing-Albert Instrument Co.
Vacuum Tube Products, Div.-Hughes Aircraft Co.
West Instrument Corp.
Weston Instruments, Div.-Daystrom, Inc.
Wilks Precision Instrument Co., Inc.

THERMOCOUPLES, CABLE ASSEMBLIES
See CABLE ASSEMBLIES, THERMOCOUPLES

THERMOMETERS, RESISTANCE

Aero Research Instrument Co. Inc.
American Aeroparts
***ARNOUX CORP.**
Avien, Inc.
Bristol Co., The
Consolidated Diesel Electric Corp.
Electro-Tech Equipment Co.
Epic, Inc.
Fisher Scientific Co.
Flow Corp.
General Electric Co., Apparatus Sales Div.
Hallikainen Instruments
Illinois Testing Laboratories, Inc.
Leeds & Northrup Co.
***LEWIS ENGRG. CO., THE**
Meters Inc.
Minco Products, Inc.
Minneapolis-Honeywell Regulator Co., Industrial Div.
Minneapolis-Honeywell Regulator Co., Industrial Product Group
National Beryllia Corp.
New England Scientific Instruments Co.
Pacific Scientific Co.
Rosemount Engrg. Co.
Arthur C. Ruge Associates, Inc.
Servomechanisms, Inc.
Simpson Electric Co.
T-C Div., Dyna-Empire, Inc.
Thermo Electric Co., Inc.
Trans-Sonics, Inc.
West Instrument Corp.
Weston Instruments, Div.-Daystrom, Inc.

THERMOPILES

Aero Research Instrument Co. Inc.
Aerojet-General Corp.
James G. Biddle Co.
Bristol Co., The
Curtiss-Wright Corp., Research Div.
Eppley Laboratory, Inc., The
Illinois Testing Laboratories, Inc.
Minneapolis-Honeywell Regulator Co., Industrial Product Group
Minnesota Mining & Mfg. Co.
Thermo Electric Co., Inc.

THERMOSTATIC BIMETAL
See BIMETAL, THERMOSTATIC

THERMOSTATS

***AIRESEARCH MFG. CO., DIV.-THE GARRETT CORP.**
Alloy Bellows Inc.
Bristol Co., The
Components Corp.
Consolidated Diesel Electric Corp.
Crown Controls Co., Inc.
Electro-Tech Equipment Co.
Fenwal Inc.
G-V Controls Inc.
General Electric Co., Apparatus Sales Div.
Hagan Chemicals & Controls, Inc.
Hart Mfg., Co., The
Metals & Controls Corp., Spencer Div.
Precision Thermometer & Instrument Co.
Spencer Div., Metals & Controls Corp.
Standard-Thomson Corp., Clifford Mfg. Co. Div.
Stevens Mfg. Co., Inc.
George Ulanet Co.
United Aircraft Products, Inc.
United Control Corp.
United Electric Controls Co.
Vap-Air Aeronautical Products Div., Vapor Heating Corp.
Wilcolator Co., The

THICKNESS EQUIPMENT

American Instrument Co., Inc.
B. C. Ames Co.
***BAUSCH & LOMB OPTICAL CO.**
Branson Instruments, Inc.
Curtiss-Wright Corp., Research Div.
J. W. Dice Co.
Electronic Control Corp.
Electro-Tech Equipment Co.
Era Engrg. Inc.
Fleetwood Labs., Inc.
Gardner Laboratory, Inc.
General Electric Co., Apparatus Sales Div.
Magnaflux Corp.
Piasecki Aircraft Corp.
Taft-Peirce Mfg. Co., The
Weston Instruments, Div.-Daystrom, Inc.
Westronics Inc.

THRUST CHAMBERS

Aerojet-General Corp.
Aerolab Development Co.
Aeronca Mfg. Corp.
Alco Products, Inc.
Astrodyne, Inc.
CDC Control Services, Inc.
Diversey Engrg. Co.
Dynamic Devices, Inc.
Haveg Industries, Inc.
C. B. Kaupp & Sons, Inc.
M. W. Kellogg Co., The
Newbrook Machine Corp.
Norris-Thermador Corp.
Portland Copper & Tank Works Inc.
Reaction Motors Div., Thiokol Chem. Corp.
Reinhold Engrg. & Plastics Co.
***RHEEM MFG. CO., DEFENSE & TECHNICAL PRODUCTS DIV.**
Rohr Aircraft Corp.
Ryan Aeronautical Co.
Smith-Morris Corp.
Space Corp.
Special Projects Lab., Food Machinery & Chemical Corp.
Stainless Steel Products, Inc.
Standard-Thomson Corp., Clifford Mfg. Co. Div.
C. W. Torngren Co., Inc.
Western Gear Corp.

THRUST MEASURING INSTRUMENTS

Aero Research Instrument Co. Inc.
Aerojet-General Corp.
Aeroscience, Inc.
***AIRESEARCH MFG. CO., DIV.-THE GARRETT CORP.**
American Machine & Foundry Co., Government Products Group
Consolidated Controls Corp.
Consolidated Diesel Electric Corp.
W. C. Dillon & Co., Inc.
Dynametrics Corp.
G. M. Giannini & Co., Inc.
Hagan Chemicals & Controls, Inc.
Minneapolis-Honeywell Regulator Co.-Aeronautical Div.
Revere Corp. of America
Schaevitz Engrg.
Space Corp.
Thiokol Chemical Corp., Hunter-Bristol Div.
Westronics Inc.

TIMERS

a. Automatic Cycle
b. Automatic Reset
c. Automatic Sequence
d. Clock Radio
e. Counting
f. Cycle
g. Electronic
h. Hour Counting
i. Impulse
j. Inertia
k. Interval
l. Motor Operated
m. Multicontact
n. Percentage
o. Sequence
p. Special
q. Thermal
r. Welding, Electronic

Advanced Products Co., The, a, b, c, f, h, k, l, m, o, p.
Aero Instrument Co., h, k.
Aerolab Development Co., f, g, i, k, o, p.
Air Logistics Corp., g, p.
Airpax Electronics Inc. Seminole Div., g, i.
Allegany Instrument Co., Inc., g, k, p.
Alto Scientific Co., Inc., a, b, c, g, o.
Amelco, Inc., g.
American Missile Products Co., Inc., p.
Atlas Precision Products, Co., l, p.
Baird-Atomic, Inc., g.
Beckman Instruments, Inc., Berkeley Div., e, f, g, k.
Beckman-Systems Div., b, e, g, k.
Belock Instrument Corp., a, b, c, g, j, k, l, o, p.
Bendix Aviation Corp., Friez Instrument Div., l.
Bendix-Pacific Div., Bendix Aviation Corp., a, b, c, l, m, o, p.
Bendix Utica Div., Bendix Aviation Corp., a, b, g, o.
Bernco Engrg. Corp., a, b, c, f, k, l, m, o, p.
Branson Corp., a, b, c, e, f, k, m, o, p, q.
Briggs Associates, Inc., g, p.
Bristol Co., The, a, b, c, f, i, k thru p.
Bulow Electric Co., a, b, c, l, p.
Centronix Inc., g.
Chicago Aerial Industries, Inc., a, b, c, f, g, i, k, l, o, p.
Cleveland Metal Specialties Co., Electronics Div., e, g.
Cole Electric Co., o, p.
Consolidated Avionics Corp., c.
Control Engrg. Co., Div.-Jervis B. Webb Co., g.
Controls Co. of America, a, c, f, i, k, l, o.
Cooper Development Corp., Sub.-Marquardt Aircraft Co., g, k, p.
Cramer Controls Corp., a thru d, f, h, i, k thru p.
Cutler-Hammer Inc., a, g, l.
DBM Research Corp., g.
Daystrom Pacific Div.-Daystrom, Inc., o, p.
Destron Co., a, b, c, g, k, m, o, p.
Detronic Industries, c, g, o, r.
Di-An Controls, Inc., a, b, c, e, f, g, k, o, p.
Henry G. Dietz Co., Inc., a, c, g, k, m, o, p.
Dimco-Gray Co., k, l.
Divco-Wayne Electronics, Div.-Divco-Wayne Corp., g, p.
M. Ducommun Co., h, p.
Dynamic Controls Corp., g.
Dynamic Devices, Inc., c, o, p.
Edgerton, Germeshausen & Grier, Inc., c.
Eisler Engrg. Co., Inc., r.
Eldorado Electronics, g, p.
Electro Instruments, Inc., e, g, o.
Electro Precision Corp., g.
Electronic Control Corp., a, g.
Electronic Engrg. Co. of California, a, b, c, e, g, h, i, k, o, p.
Electronic Specialty Co., g, p.
Electro-Tech Equipment Co., a, b, c, e thru i, k, l, n, o, p, r.
Elgin Micronics Div.-Elgin National Watch Co., a, f, h thru l, p.
Elgin Micronics, West Coast Div.-Elgin National Watch Co., a thru p.
Emerson Radio & Phonograph Corp., g.
Erie Instrumation, Div. Erie Resistor Corp., e, g, k.
Erie Resistor Corp., b, e, g, k.
Ewald Instruments, r.
FXR, Inc., c, g, o.
Farmer Electric Products Co., Inc., a, b, c, g, r.
Federal Tool Engrg. Co., r.
Fidelity Amplifier Co., f, o.
First Electronics Corp., The, g, h, r.
Flight Research, Inc., c, g, p.
G-V Controls Inc., b, g, q.
General Devices, Inc., g, i, m, o.
General Electric Co., Apparatus Sales Div., a, f, h, k, l.
Globe Industries, Inc., a, b, c, l.
Gordon Enterprises, a, b, c, e, f, g, i, k, l, o, p.
Grimes Mfg. Co., l.
Guardian Electric Mfg. Co., k, o.
Haller, Raymond & Brown Inc. Div., Singer Mfg. Co., g, p.
Hamilton Watch Co., d, i.
Hamilton Watch Co.-Industrial Div., d, e, f, h, p.
***A. W. HAYDON CO., THE**, a, b, c, e thru i, k, l, m, o, p.
Haydon Div.-General Time Corp., a, b, c, e, f, h, k, l, o.
C. I. Hayes, Inc., p.
Holtzer-Cabot Div.-National Pneumatic Co., Inc., l, o.
I-L-S Instrument Div., The Meriam Instrument Co., a, b, c, f, g, i, p.
ITT Labs., g.
Industrial Timer Corp., a, b, c, f, h, k thru q.
Ingraham Co., The, p.
Intercontinental Dynamics Corp., i.
International Register Co., a, b, d, l.
Janco Corp., i.
Jordan Electronics, Div.-Victoreen Instrument Co., c, g.
H. Koch & Sons, a, b, c, f, j, k, m, o, p.
Land-Air Inc., c, e, g, i, k, l, o, p.
La Roe Instruments, Inc., e, g.
Leach Corp., g, k, o, p.
Lear, Inc., Grand Rapids Div., l, m, o, p.
Librascope Inc., g.
Litton Engrg. Labs., r.
Livingston Electronic Corp., r.
Lux Clock Mfg. Co., Inc., k, l, o.
P. R. Mallory & Co. Inc., a, b, c, f, g, k, l, m, o, p.
Marion Instrument Div., h.
Jas. P. Marsh Corp., f.
Mast Development Co., Inc., p.
Minneapolis-Honeywell Regulator Co., Ordnance Div., g, k, p.
Morse Instrument Co., The, g.
National Pneumatic Co., Inc., Holtzer-Cabot Divs., l, o.
Navigation Computer Corp., c, e, k.
Ernest Norrman Laboratories, l.
Paul Nurches Co., l, m, o.
Orbitron Co., Inc., g.
Pacific Scientific Co., a, b, c.
Paragon Electric Co., a, b, c, f, k, l, o, p.
Ralph M. Parsons Co., The, Electronics Div., g, k, p.
Patterson, Moos Div. - Universal Winding Co., Inc., a, b, i, j, k, o.
Philco Corp., Government & Industrial Div., g, p.
Photobell Co., Inc., e, g.
Pomona Electronics Co., Inc., o.
Radiation Instrument Development Lab., Inc., g.
Raymond Engrg. Lab., Inc., a, b, c, e thru p.
Raytheon Mfg. Co., r.
Resdel Engrg. Corp., g.
M. H. Rhodes, Inc., p.
Royal Industries, Inc., a, b, c, e, f, g, i, j, k, m, o, p.
Rutherford Electronics Co., g.
Sangamo Electric Co., k, l.
Sequoia Wire & Cable Co.-Div.-Mandrel Industries, Inc., g, k, o.
Servomechanisms, Inc., g, j.
Sheffield Corp., The, Sub.-Bendix Aviation Corp., c.
Singer Mfg. Co., The, Military Products Div., a, b, c, e, f, h thru l, o, p.
Spectrol Electronics Corp., a, c, k, l, m, o, p.
Standard Electric Time Co., The, f thru j.
Systron Corp., a, b, c, e, g, h, i, k, n.
Taylor Winfield Corp., a, c, g, k, o, p, r.
Telechrome Mfg. Corp., a, b, c, e thru i, l, n, o, p.

Telectro Industries Corp., g, l.
Teletronics Lab. Inc., g.
Tempo Instrument Inc., a, b, c, f, g, k, m, o, p.
Textran Corp., g.
George Ulanet Co., a.
Unit Process Assemblies, Inc., a.
U. S. Science Corp.-Div. Topp Industries, Inc., g, k, l, o.
Vacuum Tube Products, Div.-Hughes Aircraft Co., r.
Vemaline Products Co., a, b, c, g, k.
Virginia Electronics Co., Inc., g.
Vitro Labs., g.
Wacline, Inc., h.
Wakmann Watch Co. Inc.
Walkirt Co., a, b, c, e, f, g, i, o, p.
Waltham Engrg. Corp., a thru r.
Waltham Precision Instrument Co., h.
Wang Labs., Inc., g.
Waugh Engrg. Co., g, o.
Webcor, Inc., Government Div., a, b, c, e, g, k, l, o, q.
Western Design, Div.-U.S. Industries, Inc.; Santa Barbara Div., a, b, c, i, k, o.
Western Gear Corp., a, b, c, l, o.
Weston Instruments, Div.-Daystrom, Inc., h.
Wilks Precision Instrument Co., Inc., l, m, o.
G. C. Wilson & Co., a, b, f, g, k, o, r.

TIN ZINC PLATING
See PLATING, TIN ZINC

TINNING, HOT DIPPED

Amatom Electronic Hardware Co. Inc.
Kelsey-Hayes Co.
Penn-Michigan Mfg. Corp.
Somers Brass Co. Inc.
Teiner Engrg. Corp.

TIPS, SOLDERING IRON
See SOLDERING IRON TIPS

TOGGLE OR EXPANSION BOLTS
See BOLTS, TOGGLE OR EXPANSION

TOOLS, ALIGNMENT

Aerolite Electronics Corp.
Amatom Electronic Hardware Co. Inc.
Ball Machine Products Co., The
Basic Tool Industries, Inc.
Capital City Mfg. Co.
Continental Technical Service, Inc.
Dockendorff & Co. Inc.
***ENGIS EQUIPMENT CO.**
General Cement Mfg. Co., Div.-Textron, Inc.
Hunter Tool Co.
Industrial Tectonics, Inc.
Kent-Moore Organization Inc.
Keystone Electronics Corp.
Penn Fibre & Specialty Co., Inc.
Snap-On-Tools Corp.
Squiers Gage Co.
Washington Technological Associates Inc.

TOOLS, HAND OR MECHANICAL

Aircraft Tools, Inc.
Allen Tool Corp.
Apex Machine & Tool Co., The
Arrow Tool Co. Inc.
Basic Tool Industries, Inc.
Bendix Aviation Corp., Eclipse-Pioneer Div.
Billings & Spencer Co., The
Capewell Mfg. Co.
Continental Technical Service, Inc.
Dockendorff & Co. Inc.
Duro Specialty Co., Inc.
Eyelet Tool Co. Inc.
Forsberg Mfg. Co., The
General Cement Mfg. Co., Div.-Textron, Inc.
Hardman Tool & Engrg., Co.
Hunter Tool Co.
ITT-Kellogg
Industrial Tools Mfg. Corp., Sub.-Pendleton Tool Industries, Inc.
Jo-Line Tools, Inc.
Kelsey-Hayes Co.
Kent-Moore Organization Inc.
E. Konigslow Stamping & Tool Co.
Lemert Engrg. Co., Inc.
Mico Instrument Co.
Paul Nurches Co.
Overload Control Co.
Owatonna Tool Co.
PIC Design Corp., Sub.-Benrus Watch Co., Inc.
Penn Fibre & Specialty Co., Inc.
H. K. Porter Co., Inc.
Joseph T. Ryerson & Son, Inc.
Snap-On-Tools Corp.
Spec Tool Co.
Squiers Gage Co.
Stanley-Judd Div.-The Stanley Works
P. A. Sturtevant Co.
Superior Pneumatic & Mfg., Inc.
B. K. Sweeney Mfg. Co.
Taft-Peirce Mfg. Co., The
Torque Controls Inc.
***TOWNSEND CO., CHERRY RIVET DIV.**
Ullman Devices Corp.
U. S. Industries, Inc.
Vascoloy-Ramet Corp.
Vlchek Tool Co., The
Waldes Kohinoor, Inc.
Washington Technological Associates Inc.
Wetzler Clamp Co. Inc.
J. H. Williams & Co.

TOOLS
a. Pneumatic Assembly
b. Resistance Soldering
c. Thermal Soldering
d. Ultrasonic Soldering
e. Wire Tapping

Black & Decker Mfg. Co., The
Buckeye Tools Corp., a.
Chicago Pneumatic Tool Co., a.
Continental Technical Service, Inc., a.
Curtiss-Wright Corp., Princeton Div., c.
Federal Machine Co. Inc.
Forsberg Mfg. Co., The
Gardner-Denver Co., a.
Gulton Industries, Inc., d.
High Speed Hammer Co., Inc., The, a.
Ideal Industries, Inc., b.
Metal Carbides Corp.
M. M. Newman Corp., c.
PIC Design Corp., Sub.-Benrus Watch Co., Inc.
Pioneer Tool & Engrg. Co.
Printronics Corp., a.
Smith-Morris Corp.
Superior Pneumatic & Mfg., Inc., a.
United Supply Co.
Virginia Electronics Co., Inc., b.
Wassco Electric Products Corp., b.
Winkler Labs., e.
Wye Industries, d.
Zephyr Mfg. Co. Inc., b.

TOROIDAL COIL WINDING MACHINES
See COIL WINDING MACHINES, TOROIDAL

TOROIDS

Airpax Electronics Inc. Seminole Div.
Aladdin Electronics, Div.-Aladdin Industries Inc.
Alden Products Co.
American Research & Mfg. Corp.
Arnold Engrg. Co., The
Audio Development Co.
Bendix Aviation Corp., York Div.
Coilcraft Inc.
Collins Radio Co.
Control Circuits Inc.
Double E Products Co.
Dresser Industries, Inc.
ESC Corp.
Ferroxcube Corp. of America
Forbes & Wagner, Inc.
Geotronic Labs. Inc.
Goslin Electric & Mfg. Co.
Gulton Industries, Inc.
Hammarlund Mfg., Co., Inc.
Industrial Tectonics, Inc.
Industrial Winding Machinery Corp.
Jack & Heintz, Inc.
Litton Industries, Inc.
Magnetic Core Corp.
Mico Instrument Co.
Motorola Inc., Military Electronics Div.
NYT Electronics, Inc.
National Pneumatic Co., Inc., Holtzer-Cabot Div.
Newbrook Machine Corp.
North Hills Electric Co., Inc.
Ortho Filter Corp.
PCA Electronics Inc.
Pacific Magnetic Corp.
Palo Alto Engrg. Co.
Portland Copper & Tank Works Inc.
Precision, Inc.
Qutronic Transformer Corp.
Railway Communications Inc.
Redman Electronics Corp.
Reflectone Corp., The
Rixon Electronics Inc.
Rohr Aircraft Corp.
Milton Ross Metals Co., The
Rytron Co., Inc.
Sangamo Electric Co.
Technical Apparatus Builders
Topper Mfg. Co., Inc.
Transonic, Inc.
Triad Transformer Corp.
Universal Toroid Coil Winding, Inc.
Varo Mfg. Co., Inc.
Westbury Electronics Inc.
Westinghouse Electric Corp.
Zallea Brothers

TOWER LIGHTING EQUIPMENT
See LIGHTING EQUIPMENT, TOWER

TRACERS, SIGNAL

Philco Corp., Government & Industrial Div.

TRAILERS, VANS, SHELTERS
See SHELTERS, TRAILERS, VANS

TRANSCEIVERS, PORTABLE

Allied International Co.
Amelco, Inc.
American Missile Products Co., Inc.
Rex Bassett, Inc.
Bendix Aviation Corp., York Div.
Bendix Radio Div., Bendix Aviation Corp.
Centronix Inc.
Collins Radio Co.
Daven Co., The
Electronic Communications, Inc.
Hoffman Labs. Div., Hoffman Electronics Corp.
ITT Labs.
Lear, Inc.
L E L, Inc.
Litton Industries, Maryland Div.
Motorola Inc., Military Electronics Div.
National Pneumatic Co., Inc., Holtzer-Cabot Div.
Philco Corp., Government & Industrial Div.
Projects Unlimited Inc.
Telectro Industries Corp.

TRANSCEIVERS, UHF

Allied International Co.
Amelco, Inc.
American Electronics, Incorporated
American Electronics, Inc.-Instrument Div.
American Missile Products Co., Inc.
Bendix Aviation Corp., York Div.
Bendix Radio Div., Bendix Aviation Corp.
Centronix Inc.
Chrysler Corp., Defense Operations Div.
Collins Radio Co.
Dalmotor Div., Yuba Consolidated Industries, Inc.
Daven Co., The
Divco-Wayne Electronics, Div.-Divco-Wayne Corp.
Electronic Communications, Inc.
Gilfillan Bros. Inc.
Hoffman Labs. Div., Hoffman Electronics Corp.
ITT Federal Div., International Telephone & Telegraph Corp.
ITT Labs.
Instruments For Industry, Inc.
Lear, Inc.
L E L, Inc.
Litton Industries, Maryland Div.
Magnavox Co., The
Motorola Inc., Military Electronics Div.
Munston Mfg. & Service, Inc.
Philco Corp., Government & Industrial Div.
Stavid Engrg., Inc.
Stromberg-Carlson Div.-General Dynamics Corp.
Telectro Industries Corp.
Webcor, Inc., Government Div.

TRANSCEIVERS, VHF

Allied International Co.
Amelco, Inc.
American Electronics, Inc.
American Electronics, Incorporated
Bendix Aviation Corp., York Div.
Bendix Radio Div., Bendix Aviation Corp.
Centronix Inc.
Collins Radio Co.
Dalmotor Div., Yuba Consolidated Industries, Inc.
Daven Co., The
Divco-Wayne Electronics, Div.-Divco-Wayne Corp.
Electronic Communications, Inc.
Hoffman Labs. Div., Hoffman Electronics Corp.
ITT Federal Div., International Telephone & Telegraph Corp.
ITT Labs.
Instruments For Industry, Inc.
Land-Air Inc.
Lear, Inc.
Lear, Inc., Grand Rapids Div.
L E L, Inc.
Litton Industries, Maryland Div.
Livingston Electronic Corp.
Motorola Inc., Military Electronics Div.
Philco Corp., Government & Industrial Div.
Stavid Engrg., Inc.
Stromberg-Carlson Div.-General Dynamics Corp.
Telectro Industries Corp.
U. S. Science Corp., Div.-Topp Industries, Inc.
Webcor, Inc., Government Div.

TRANSDUCERS
a. Accelerometer
b. Flow
c. Industrial
d. Measurement
e. Pressure
f. Sonar
g. Strain
h. Temperature
i. Vibration

Aero Research Instrument Co. Inc., b, e, h.
Aeroscience, Inc.
***AIRESEARCH MFG. CO. OF ARIZ., e.**
***AIRESEARCH MFG. CO., DIV.-THE GARRETT CORP., a, e, h.**
Airpax Electronics Inc. Seminole Div.
Allegany Instrument Co., Inc., e, g, h.
Allied Research & Engrg., Div.-Allied Record Mfg. Co.
American Machine & Foundry Co., Government Products Group, a, f, i.
American Measurement & Controls, Inc., b.
***ARMOUX CORP., h.**
Atlantic Instrument Corp., Sub.-American Electronics, Inc., h.
Atlantic Research Corp., d, e, f.
B & F Instruments, Inc., a.
BJ Electronics, Borg-Warner Corp., a thru e, g, h, i.
B & K Instruments, Inc., a.
Beaver Precision Products Inc., b, e.
Beckman & Whitley, Inc., Missile Products Div., h.
Bell Aircraft Corp., Niagara Frontier Div., a.
Belock Instrument Corp., a, e, g.
Bendix Aviation Corp., Friez Instrument Div., a.
Bendix Aviation Corp., Montrose Div., a.

A. Biederman, Inc., d, e, h.
Blackstone Corp., c.
Bogue Electric Mfg. Co., d.
Bourns Labs., Inc., a, e.
Branson Instruments, Inc., d.
Bristol Co., The, b thru e, g, h.
Brush Instruments, Div.-Clevite Corp., a thru i.
Cadillac Gage Co., a.
Cardinal Instrumentation Corp., c, d, h.
Cedar Engrg. Div.-Control Data Corp., a.
Chesapeake Instrument Corp., a, f, i.
Chrysler Corp., Defense Operations Div.
Clark Electronic Labs., a, e, g.
G. L. Collins Corp., d, e, i.
Colorado Research Corp.
Colvin Labs., Inc., c, e.
Computer Instruments Corp., e.
Consolidated Diesel Electric Corp., d, e, h.
Consolidated Electrodynamics Corp., a, d, e, g, i.
Control Circuits Inc., h.
Control Data Corp., a.
Crescent Engrg. & Research Co., b thru e, g, h, i.
Curtiss-Wright Corp., Electronics Div., e, g.
Curtiss-Wright Electronics Div., IMI Branch, e.
Dalmotor Div., Yuba Consolidated Industries, Inc., e.
Datran Electronics, Div.-Mid-Continent Mfg., Inc., e.
Daystrom Pacific Div.-Daystrom, Inc., a, d, e.
Daytronic Corp., c, d, e, g.
Decker Corp., The, d.
Delco-Remy Div., General Motors Corp., e, e.
W. C. Dillon & Co., Inc., g.
Donner Scientific Co., a, e.
Dresser Industries, Inc., b, d, e, h.
Dynamic Instrument Co., Inc., b, e.
Edcliff Instruments, a, d, e.
Edgerton, Germeshausen & Grier, Inc., d.
Electro Products Laboratories, Inc., c, d, i.
Elgin Micronics, West Coast Div.-Elgin National Watch Co., a, d, f, g, h.
Endevco Corp., a, e, i.
Era Engrg. Inc., a.
Erie Resistor Corp.
Fairchild Controls Corp., Components Div., a, e.
Fenwal Inc., h.
Fischer & Porter Co., b, c, e, h.
Fisher Governor Co., c, e.
General Crystal Co., Inc., c, d.
General Electric Co., Apparatus Sales Div., b, h.
Genisco, Inc., a.
Genisco, Inc., Instrument Div., a.
Geotronic Labs. Inc.
G. M. Giannini & Co., Inc., a, e, h.
Good Electronic Corp., g, h.
Gulton Industries, Inc., a, d, f, h, i.
Hagan Chemicals & Controls, Inc.
Hesco Engrg., h.
Hewlett-Packard Co., c.
I-L-S Instrument Div., The Meriam Instrument Co., c.
International Research & Development Corp., i.
International Resistance Co., c, d, e.
***KEARFOTT CO., INC.**, a, h.
Kin Tel Div.-Cohu Electronics, Inc., a, e, f, i.
Kollsman Instrument Corp., Sub.-Standard Coil Products Co. Inc., a, e.
Land-Air Inc., b, i.
Lear, Inc., a.
Lear, Inc., Grand Rapids Div., a, e.
Leeds & Northrup Co., h.
***WALLACE O. LEONARD, INC.**, a, b, d, e.
***LEWIS ENGRG. CO., THE**, h.
Librascope Inc., b.
Ling Electronics, Inc., i.
Litton Industries, Maryland Div., a thru i.
MB Mfg. Co., i.
Maico Electronics, Inc., f.
Massa Div.-Cohu Electronics, Inc., a, d, f.
Micrometrical Mfg. Co., i.
Minatron Corp., d.
Minco Products, Inc., h.
Minneapolis-Honeywell Regulator Co.-Aeronautical Div., a, e.
Minneapolis-Honeywell Regulator Co., Boston Div., a, i.
Minneapolis-Honeywell Regulator Co., Industrial Div., b, c, e, h.
Minneapolis-Honeywell Regulator Co., Industrial Product Group, b thru e, g, h.
Minneapolis-Honeywell Regulator Co., Ordnance Div., a, f.
Motorola Inc., Military Electronics Div., f.
NRC Equipment Corp., e.
Narda Ultrasonics Corp., The, f, i.
National Beryllia Corp., h.
National Pneumatic Co., Inc., Holtzer-Cabot Divs., f.
Norwood Controls Unit, Detroit Controls Div., b, e, g.
Pace Engrg. Co., a, b, e.
Pacific Radionics, b, c, d, f, i.
Pacific Scientific Co., a, c, h, i.
Photocon Research Products, e.
Pickering & Co., Inc., d.
Potter Aeronautical Corp., b.
Power-Tronic Systems Inc., a thru e.
Projects Unlimited Inc., e.
Radiation, Inc.
Rahm Instruments, Div.-American Machine & Metals, Inc., a, b, c, e.
Revere Corp. of America, b, e, g, h.
Rosemount Engrg. Co., e, h.
Arthur C. Ruge Associates, Inc., h.
Sanborn Co., e.
Sangamo Electric Co., f.
Schoevitz Engrg., a, d, e.
Servomechanisms, Inc., a, e, h.
Singer Mfg. Co., The, Military Products Div., e, f.
Space Corp., i.
Specialties, Inc., e.
Standard Controls, Inc., b, e.
Statham Instruments, Inc., a thru e, g.
Stromberg-Carlson Div.-General Dynamics Corp., f.
Technology Instrument Corp., a, d, e, i.
Thermo Electric Co., Inc., h.
Thiokol Chemical Corp., e, f, g.
Trans-Sonics, Inc., b, d, e, g, h.
Trionics Corp., a, h.
Ultradyne, Inc., a, e.
United Control Corp., e, h.
U. S. Science Corp., Div.-Topp Industries, Inc., a, e, h.
Valpey Crystal Corp.
Victor R. F. & Microwave Co., d.
Vinson Mfg. Co. Inc., b thru e.
Wallace & Tiernan Inc., e.
Waugh Engrg. Co., b.

TRANSFER EQUIPMENT

American Machine & Foundry Co., Government Products Group
Bowser, Inc., Defense Dept.
Cambridge Co., Div.-Carrier Corp.
Continental Technical Service, Inc.
***JANITROL AIRCRAFT DIV., SURFACE COMBUSTION CORP.**
Kenhos Corp., Div.
Linde Co., Div.-Union Carbide Corp.
Merz Engrg., Inc.
Project Fabrication Corp.
Edw. Renneburg & Sons Co.
Resistoflex Corp.
Special Projects Lab., Food Machinery & Chemical Corp.
Stearns-Roger Mfg. Co.
Washington Technological Associates Inc.

TRANSFORMER LAMINATIONS
See LAMINATIONS, TRANSFORMER

TRANSFORMER WINDING BOBBINS
See BOBBINS, TRANSFORMER WINDING

TRANSFORMER WINDINGS

Advanced Electronics, Inc.
Atlas Coil Inc.
Central Transformer Co.
Dietz Design & Mfg. Co.
Dinion Coil Co., Inc.
Dresser Industries, Inc.
Eisler Engrg. Co., Inc.
Ferrotran Electronics Co., Inc.
Forest Electric Co., The
Fugle-Miller Labs. Inc.
Good-All Electric Mfg. Co.
Goslin Electric & Mfg. Co.
Green Rectifier Co.
Industrial Transformer Corp.
Integrated Mica Corp.
Langevin Div., The W. L. Maxson Corp.
Microtran Co. Inc.
Minitran Corp.
NYT Electronics, Inc.
National Coil Co.
Networks Electronic Corp.
New York Coil Co.
Palo Alto Engrg. Co.
Perry Plastics, Inc.
Qutronic Transformer Corp.
Rollan Electric Co.
Rytron Co., Inc.
Signal Transformer Co.
Topper Mfg. Co., Inc.
Transformer Design, Inc. of Milwaukee
Transonic, Inc.
Universal Toroid Coil Winding, Inc.
Westbury Electronics Inc.
Westinghouse Electric Corp.

TRANSFORMERS

a. Audio
b. Fly Back
c. Foil Wound
d. General
e. High Voltage Power Supply
f. Instrument
g. Intermediate Frequency
h. Miniature
i. Output
j. Power
k. Precision Voltage Dividing
l. Pulse
m. RF & IF
n. Ultrasonic

ACF Industries Inc., a, h, i.
AMP Inc., l.
A.P.W. Co., h.
Ace Coil & Electronics Co., l, m.
Acme Electric Corp., d, h, i, j, l.
Acromag Inc., f, k.
Aerolab Development Co., h, j.
Airpax Electronics Inc., Seminole Div., a, e, i, j, l.
Aladdin Electronics, Div.-Aladdin Industries Inc., a, d, g, h, l, m.
All-Tronics, Inc., m.
Amelco, Inc., a, d, g thru j, m, n.
American Machine & Foundry Co., Greenwich, c.
Amplifier Corp. of America, a, h, i, j.
R. B. Annis Co., f.
Associated Research, Inc., f.
Atlas Coil Inc., c thru n.
Atlas Engrg. Co. Inc., a thru x, m.
Audio Development Co., a, c thru f, h thru l, n.
Ballastran Corp., a, d, g thru l, n.
Barker & Williamson Inc., g, m.
Barwood Electronics Inc., a, d, h, i, j.
Bell Aircraft Corp., Niagara Frontier Div., h, l.
Bendix Aviation Corp., York Div., e, h, j, l.
Bogue Electric Mfg. Co., e, j.
Brown Engrg. Co., Inc., f, h, i, j, m.
Cable Electric Products Inc., d, i.
Carol Electronics Corp., a, j, m.
Carruthers & Fernandez, Inc., d, h, i, j.
Celco, (Constantine Engrg. Labs. Co.), a thru n.
Central Transformer Co., a, c thru f, h, i, j, n.
Chicago Electronic Engrg. Co., Inc., a, d, i, j, k.
Chicago Standard Transformer Corp., a, b, d, e, h, i, j, l.
Clippard Instrument Lab., Inc., b, m.
Coil Co. of America, a, c, d, e, i thru l, n.
Coilcraft Inc., g, h, m.
G. L. Collins Corp., k.
Control Circuits Inc., e, n.
Cycle Transformer Corp., a, d, e, f, h thru l, n.
Davenport Mfg. Co., e, k.
Dayton Aviation Radio & Equipment Corp., g, m.
Del Electronics Corp., e, h, i, j.
Dietz Design & Mfg. Co., a, d, e, f thru n.
Dinion Coil Co., Inc., a, e, f, h, i, j, l.
Double E Products Co., m.
Dresser Industries, Inc., a, b, d, e, h thru l, n.
ESC Corp., h, l.
Eagle Electric Mfg. Co. Inc., d.
Eisler Engrg. Co., Inc., e, i, j.
Elcor, Inc., f, h, j.
Electrical Windings, Inc., a, d, f, g, i, j.
Electro Development Corp.
Electro Engrg. Works, a, d, e, f, i, j, k.
Electronic Coils, Inc., k.
Electronic Research Associates, Inc., a, e, h, i, j.
Electronic Transformer Co., Inc., a, h, i, j, l, n.
Electro-Tech Equipment Co., f, j.
Electro-Winders Co. Inc., g, h, l, m.
Era Electric Corp., a, c, d, e, h thru l.
Erie Resistor Corp., h, l.
Ferranti Electric Inc., a, d, e, h thru k, n.
Ferrotran Electronics Co., Inc., a, g thru j.
Ferroxcube Corp. of America, b, h, l, m.
Filtron Co., Inc., l.
Forbes & Wagner, Inc., b, g, l, m.
Forest Electric Co., The, a, d, e, i, j.
Foster Transformer Co., a, d, e, h, i, j, l.
Freed Transformer Co. Inc., a, c thru f, h thru l, n.
Fugle-Miller Labs. Inc., e, g, m.
General Coil Products Corp., a, d, g, h, i, m.
General Electric Co., Apparatus Sales Div., d, e, f, j, l.
Geotronic Labs. Inc., a, c, d, f thru j.
Good-All Electric Mfg. Co., c, e, i, j.
Goslin Electric & Mfg. Co., a, c thru n.
Green Rectifier Co., c, d, j.
Gudeman Co. of California, Inc., The, Monrovia Div., h, l.
Hevi-Duty Electric Co., d, e, f, i, j, l.
Hindle Transformer Co. Inc., c thru f, i, j.
A. F. Holden Co., The, d.
Industrial Transformer Corp., a, c thru l.
Jensen Mfg. Co., a.
Johnson Electronics Inc., h, m.
Keystone Products Co., a, d, e, f, h thru l, n.
Knopp Inc., d, e, f, i.
Land-Air Inc., d, e, j.
Landis & Gyr Inc., f.
Langevin Div., The W. L. Maxson Corp., a, c thru f, h thru l, n.
Levinthal Electronic Products, Inc., l.
Litton Industries, Inc., b, d, h, j.
Magnetico, Inc., h, k.
Merit Coil & Transformer Corp., a, b, d, f thru j, m.
Microtran Co. Inc., a, d, e, f, h thru l, n.
J. W. Miller Co., e, g, h, l.
Sanford Miller Co., i, j.
Minitran Corp., a, d, f, h thru l.
Minneapolis-Honeywell Regulator Co., Boston Div., h.
Mucon Corp., e, j.
NYT Electronics, Inc., d thru m.
National Coil Co., a, d, f thru i, k, m, n.
National Pneumatic Co., Inc., Holtzer-Cabot Div., a, b, e, j, m.
Networks Electronic Corp.
New England Scientific Instruments Co., i, j.
New England Transformer Co., Inc., a, c, d, e, h, i, j, l.
New York Coil Co., a, c thru f, h thru n.
New York Transformer Co. Inc., a, c thru f, h thru l, n.
North Hills Electric Co., Inc., g, l, m, n.
Ortho Filter Corp., a, f, i thru l.
Osborne Electronic Sales Corp., a thru n.
Oxford Components, Inc., a, d, e, f, h thru k.
PCA Electronics Inc., l.
Pacific Magnetic Corp., a, d, e, f, h thru l.
***PACKARD-BELL ELECTRONICS CORP.**, l.
Palo Alto Engrg. Co., a, d, f, h thru l.
Pearson Electronics, Inc., l.
Penn-Tran Corp., b, m.
Perkin Engrg. Corp., c, d, e, j.
Perry Plastics, Inc., a, h, i.
Peschel Electronics, Inc., e.
Portchester Instrument Corp.
Qutronic Transformer Corp., a, c, d, f thru l.
RS Electronics Corp., g, l, m.
Radio Industries, Inc., g, h, m.

Douglas Randall Inc., d, h, i, j.
Raytheon Mfg. Co., a, e, l.
Redman Electronics Corp., g, l, m, n.
Rixon Electronics Inc., l.
Rollan Electric Co., a, i, m.
Milton Ross Metals Co., The, h, l.
Rytron Co., Inc., g thru m.
Sangamo Electric Co., a, e, f, h, j, k, l, n.
Sherman Industrial Electronics, Div.-Engrg. Design Inc., e.
Signal Transformer Co., a, c, d, e, h thru l, n.
Sorensen & Co., Inc., e.
Specialties, Inc., f thru i, k, l, m.
Stanwyck Winding Co., Inc., g, m.
Stavid Engrg., Inc., a, e, i, j.
Sterling Transformer Corp., a, d, e, h, i, j, n.
Stromberg-Carlson Div.-General Dynamics Corp., a, h, l.
Superex Electronics Corp., g, h, m.
Technical Apparatus Builders, c, d, e, j.
Technitrol Engrg. Co., l.
Telectro Industries Corp., a, e.
Topper Mfg. Co., Inc., n.
Torwico Electronics, Inc., a, d, f, h, j, k.
Transformer Design, Inc. of Milwaukee, a thru l.
Transformer Specialty Co., a, c thru f, i, j.
Transonic, Inc., a, d, e, f, h thru l, n.
Tresco, Inc., a thru e, g, h, i, k.
Triad Transformer Corp., a, b, d thru l, n.
Universal Toroid Coil Winding, Inc., f, l.
University Loudspeakers, Inc., a.
Vanguard Electronics Co., g, m.
Varo Mfg. Co., Inc., a, d, e, g thru l.
Virginia Electronics Co., Inc., a, d thru g, m.
Warren Transformer Co., Inc., a, c thru n.
Westbury Electronics Inc., a, c, d, e, i, j, l.
Westinghouse Electric Corp.
Weston Instruments, Div.-Daystrom, Inc., f, k.
Wheeler Electronic Corp., Sub.-Sperry Rand Corp., a, d thru m.
Wye Industries, n.
Zenith Radio Corp., a, g, j, m.

TRANSISTORS

a. **Germanium**
b. **Germanium, Power**
c. **Junction**
d. **Photo**
e. **Point-Contact**
f. **Power**
g. **Selenium**
h. **Silicon**
i. **Silicon, Power**
j. **Surface Barrier**
k. **Switching**
l. **Tetrode**

***ACK RADIO SUPPLY CO., a thru l.**
Bendix Aviation Corp., Red Bank Div., a, b, c, e, g, h, i, k.
Bendix Aviation Corp.-Semiconductor Products, Red Bank Div., a, b, k.
Bogue Electric Mfg., Co., h, i.
CBS-Hytron, Div. Columbia Broadcasting System, Inc., a, b, c, f, k.
Calvert Electronics Inc., a thru l.
Clevite Transistor Products, Div.-Clevite Corp., a, b, c, f, k.
Delco Radio Div.-General Motors Corp., b.
Genalex Div.-British Industries Corp., a, b, e, f, h, i, k.
General Transistor Corp., a, c, d, h, k.
Hoffman Electronics Corp., Semiconductor Div., f, h.
Hoover Electric Co.
Hughes Aircraft Co., a, h.
Industro Transistor Corp., a, c, k.
Minneapolis-Honeywell Regulator Co., Ordnance Div., a, b, f, l.
Motorola Inc., Military Electronics Div., a, b, c, e, f, h, i, k, l.
Pacific Semiconductors, Inc., h, i, k.
Philco Corp., Government & Industrial Div., a, b, c, e thru l.
Philco Corp., Lansdale Tube Co. Div., a, b, c, h, j, k.
Portchester Instrument Corp.
Raytheon Mfg. Co., a, c, h, i.
Silicon Transistor Corp., h, i.
Sperry Semiconductor Div., Sperry Rand Corp., h, k.
Sylvania Electric Products Inc., Semiconductor Div., a, b, e, f, h.
Technical Apparatus Builders, b, c, f, g, h, k.
Transitron Electronic Corp., a, h, i, k.
Trans-Sil Corp., i.
United States Dynamics Corp., h, i.
Warren Components, Div.-El-Tronics, Inc., b.
Westinghouse Electric Corp., a, b.
Zenith Radio Corp., k.

TRANSMISSION LINE, WIRE & CABLE

Aluminum Co. of America
American Super-Temperature Wires, Inc.
Barker Sales Co.
Birnbach Radio Co., Inc.
William Brand & Co., Inc.
Chase Brass & Copper Co., Inc.
Chemplast, Inc.
Copperweld Steel Co., Wire & Cable Div.
Cornish Wire Co. Inc.
Entron, Inc.
Essex Wire Corp.
ITT-Kellogg
Precision Tube Co., Inc.
Sequoia Wire & Cable Co., Div.-Mandrel Industries, Inc.
Western International Co.
Westwood Cable Corp.
Wind Turbine Co.

TRANSMISSION LINES, MICROWAVE

Aircom Inc. of New Jersey
Airtron Inc., Div.-Litton Industries
American Super-Temperature Wires, Inc.
Barker Sales Co.
Bendix Aviation Corp., York Div.
Bogart Mfg. Corp.
Budd Stanley Co. Inc.
Diamond Antenna & Microwave Corp.
Douglas Microwave Co., Inc.
FXR, Inc.
ITT Federal Div., International Telephone & Telegraph Corp.
ITT Labs.
J-V-M Microwave Co.
Lieco, Inc.
Litton Industries, Inc.
Meridian Metalcraft, Inc.
Monogram Precision Industries
N.R.K. Mfg. & Engrg. Co.
Philco Corp., Government & Industrial Div.
Precision Tube Co., Inc.
Tamar Electronics, Inc.
Technical Appliance Corp.
Telerad Mfg. Corp.
Victor R. F. & Microwave Co.
Western International Co.

TRANSMISSION MONITORING EQUIPMENT
See MONITORING EQUIPMENT, TRANSMISSION

TRANSMITTER BLOWERS
See BLOWERS, TRANSMITTER

TRANSMITTER TUNING DEVICES, MECHANICAL
See TUNING DEVICES, TRANSMITTER MECHANICAL

TRANSMITTERS

Aerojet-General Corp.
Amelco, Inc.
Applied Science Corp. of Princeton
Babcock Radio Engrg., Inc.
Rex Bassett, Inc.
Bendix Radio Div., Bendix Aviation Corp.
Bristol Co., The
Budelman Electronics Corp.
Centronix Inc.
Collins Radio Co.
Communications Co.
Communications Research Co.
Continental Electronics Mfg. Co.
Cooper Development Corp., Sub.-Marquardt Aircraft Co.
Crosby Laboratories, Inc.
Daven Co., The
Dorsett Labs., Inc.
DuKane Corp.
Electro-Mechanical Research, Inc.
Electronic Communications, Inc.
Emerson Electric Mfg. Co., The, Electronics & Avionics Div.
Emerson Radio & Phonograph Corp.
General Devices, Inc.
Gilfillan Bros. Inc.
Goslin Electric & Mfg. Co.
Hammarlund Mfg. Co. Inc.
Hazeltine Electronics Div.-Hazeltine Corp.
Hoffman Labs. Div., Hoffman Electronics Corp.
ITT Federal Div., International Telephone & Telegraph Corp.
ITT Labs.
E. F. Johnson Co.
Kaar Engrg. Corp.
Kaiser Aircraft & Electronics, Div.-Kaiser Industries Corp.
Land-Air Inc.
Leaming Engrg., Inc.
Lear, Inc.
Levinthal Electronic Products, Inc.
Ling Electronics, Inc.
Litton Industries, Maryland Div.
W. L. Maxson Corp., The
Motorola Inc., Military Electronics Div.
Ralph M. Parsons Co., The, Electronics Div.
Philco Corp., Government & Industrial Div.
Radiaphone Co. Inc.
Raytheon Mfg. Co., Government Equipment Div.
Seeburg Corp., The
Stromberg-Carlson Div.-General Dynamics Corp.
Telerad Mfg. Corp.
Television Utilities Corp.
Thiokol Chemical Corp.
Virginia Electronics Co., Inc.
Zenith Radio Corp.

TRANSMITTERS, PORTABLE & MOBILE RADIOTELEPHONE

Automatic Electric Sales Corp.
Barker Sales Co.
Rex Bassett, Inc.
Bendix Radio Div., Bendix Aviation Corp.
Centronix Inc.
Collins Radio Co.
Communications Co.
Communications Research Co.
Daven Co., The
Emerson Radio & Phonograph Corp.
Goslin Electric & Mfg. Co.
Hammarlund Mfg. Co. Inc.
Hoffman Labs. Div., Hoffman Electronics Corp.
ITT Labs.
E. F. Johnson Co.
Kaar Engrg. Corp.
Lear, Inc.
L E L, Inc.
Litton Industries, Maryland Div.
Livingston Electronic Corp.
Motorola Inc., Military Electronics Div.
Munston Mfg. & Service, Inc.
National Pneumatic Co., Inc., Holtzer-Cabot Div.
Philco Corp., Government & Industrial Div.
Radio Specialty Mfg., Co.
Rowe Industries
Stromberg-Carlson Div.-General Dynamics Corp.
Telectro Industries Corp.
Thiokol Chemical Corp.
Virginia Electronics Co., Inc.

TRANSPONDERS

American Missile Products Co., Inc.
Bristol Co., The
Centronix Inc.
Collins Radio Co.
Communications Research Co.
Cooper Development Corp., Sub.-Marquardt Aircraft Co.
Cubic Corp.
Curtiss-Wright Corp., Santa Barbara Div.
Daven Co., The
Dorsett Labs., Inc.
Electronic Communications, Inc.
Emerson Radio & Phonograph Corp.
Gilfillan Bros. Inc.
Hallamore Electronics Co.
Hazeltine Electronics Div.-Hazeltine Corp.
ITT Federal Div., International Telephone & Telegraph Corp.
ITT Labs.
Land-Air Inc.
Lear, Inc.
Litton Industries, Maryland Div.
W. L. Maxson Corp., The
Minneapolis-Honeywell Regulator Co., Ordnance Div.
Motorola Inc., Military Electronics Div.
Ralph M. Parsons Co., The, Electronics Div.
Space Corp.
Telectro Industries Corp.
Telerad Mfg. Corp.
U. S. Science Corp., Div.-Topp Industries, Inc.
Varian Associates

TRANSPORT UNITS

Aerodex, Inc.
Aerolab Development Co.
Alwac Corp.
Cambridge Co., Div.-Carrier Corp.
Consolidated Diesel Electric Corp.
Crane Carrier Corp.
Donner Scientific Co.
Dresser Industries, Inc.
Eidal Mfg. Co., Inc.
FWD Corp.
Lyncoach & Truck Co. Inc.
***MIRAX CHEMICAL PRODUCTS CORP., METAL CONTAINER DIV.**
Ordnance Div.-Food Machinery & Chemical Corp.
Shepard Laboratories, Inc.
Trailmobile Inc.
United Mfg. Co., The
U.S.A.C. Transport, Inc.

TRAPS, WAVE
See WAVE TRAPS

TRIM TABS

Adept Industries Inc.
Intercontinental Mfg. Co., Inc.
Kaiser Aircraft & Electronics, Div.-Kaiser Industries Corp.
Longren Aircraft Co., Inc.
Monrovia Aviation Corp.
Santa Anita Engrg. Co.
Talley Corp., The

TRIPODS

Acco Equipment Div., American Chain & Cable Co., Inc.
Burke & James Inc.
Colson Corp., The
Davidson Mfg., Co., Inc.
Gordon Enterprises
Houston Fearless Corp.
Mitchell Camera Corp.
Peerless Products Industries
***RHEEM MFG. CO., DEFENSE & TECHNICAL PRODUCTS DIV.**
Traid Corp.
Wind Turbine Co.

TUBE

a. **Cooling Units**
b. **Pin Straighteners**
c. **Pullers**
d. **Seal Leads**
e. **Shields**
f. **Sockets**

Aerovox Corp., f.
***AIRESEARCH MFG. CO., DIV.-THE GARRETT CORP., a.**
Alden Products Co., f.
Aluminum Co. of America, a.
Amphenol Connector Div., Amphenol-Borg Electronics Corp., f.
Art Wire & Stamping Co., d, e.
Associated Engrg. & Mfg. Corp., d.
Atlas E-E Corp., e.
Augat Brothers, Inc., a, e.
W. A. Beauchaine & Sons Inc., b, c.
Birtcher Corp., The, e.
Continental Electronics Mfg. Co., a.
Dean Products, Inc., a, e.
Doyle & Roth Mfg. Co., Inc., a.
Eastern Industries Inc., a.
Eitel-McCullough, Inc., f.
Elco Corp., f.
Electronic Parts Mfg. Co., Inc., d.
General Electric Co., Lamp Metals & Components Dept., d.
Griscom-Russell Co., The, a.
International Electronic Research Corp., a, e.
Jettron Products, Inc., f.
C. B. Kaupp & Sons, Inc., e.
Kling Metal Spinning & Stamping Co., e.
Livingston Electronic Corp., e, f.
Metal Textile Corp., Electronics Div., a, d, e, f.
Methode Mfg. Corp., e, f.
Monogram Precision Industries, a.
Mueller Brass Co., a.
Northrop Corp., The, Nortronics Div., a.
Paul Nurches Co., f.
Omega Electronic Corp., e, f.
Parts Engrg. Co., Inc., a.
C. F. Roark Welding & Engrg. Co., Inc., a.
Milton Ross Metals Co., The, b, f.
Slip Ring Co. of America, f.
Specialty Engrg. & Electronics Co.
Star Expansion, b.
Staver Co., Inc., The, e.
Sylvania Electric Products Inc., Parts Div., f.
United Aircraft Products, Inc., a.
Vilter Mfg. Co., The, a.
Waldom Electronics Inc., e, f.
Westinghouse Electric Corp., Lamp Div., d.
Westline Products Div.-Western Lithograph Co., e.
Winchester Electronics, Inc., f.
Zippertubing Co., The, e.

TRIMMERS, POTENTIOMETER
See POTENTIOMETER TRIMMERS

TUBE ASSEMBLIES, IGNITION
See IGNITION TUBE ASSEMBLIES

TUBE CAPS
See CAPS, TUBE

TUBE CHEMICALS
See CHEMICALS, TUBE

TUBE PARTS

Art Wire & Stamping Co.
Associated Engrg. & Mfg. Corp.
Astronautics Engrg. Co.
B. H. Aircraft Co., Inc.
Ball Machine Products Co., The
***BEATON & CORBIN MFG. CO., THE**
Corning Glass Works
Diamonite Products Mfg. Co.
Electronic Parts Mfg. Co., Inc.
GAR Mfg. Corp.
Lancaster Glass Corp.
Mercury Tool & Mfg. Corp.
Metal Textile Corp., Electronics Div.
Mueller Brass Co.
National Beryllia Corp.
New Process Metals, Inc.
Parts Engrg. Co., Inc.
Precision Sheet Metal, Inc.
Milton Ross Metals Co., The
Shaw Metal Products Corp.
Smith-Morris Corp.
Staver Co., Inc., The
Superior Electronics Corp.
Sylvania Electric Products Inc., Parts Div.
Thomas Electronics, Inc.
Universal Unlimited, Inc.
Veet Industries
Westinghouse Electric Corp., Lamp Div.
Woolf Aircraft Products, Inc.

TUBE SLEEVES
See SLEEVES, TUBE

TUBE STAMPED PARTS
See STAMPED PARTS, TUBE

TUBE SUPPORTS
See SUPPORTS, TUBE

TUBES

a. ATR
b. Backward Wave
c. Ballast
d. Battery Charger
e. Bolometer
f. Cathode, Multiple Gun
g. Cathode Ray
h. Cathode Ray, Instrument Use
i. Ceramic
j. Computer, Storage
k. Counter Beam
l. Electrometer
m. Electron Multiplier
n. Gamma Ray, Nuclear
o. Geiger Counter, Nuclear
p. Geiger Mueller
q. Glow or Discharge
r. Ignitron
s. Infra-Red
t. Ionization
u. Klystron
v. Magnetron
w. Miniature
x. Noise Source
y. Phototubes
z. Phototubes, Multiplier
a1. Pirani
b1. Power Amplifier
c1. Projection
d1. Receiving
e1. Rectifying
f1. Rectifying, Gas-Filled Type
g1. Rectifying, Transmitting
h1. Rectifying, Vacuum Type
i1. Scintillation
j1. Scintillation, Nuclear
k1. Sparkgap
l1. Strobe
m1. Subminiature
n1. Switching
o1. Thyratron
p1. TR
q1. Transducer
r1. Transmitting
s1. Transmitting-Receiving
t1. Traveling Wave
u1. Ultra-Violet
v1. Vacuum
w1. Voltage Reference or Regulating
x1. X-Ray

American Brass Co., The, x-1.
American Elite, Inc., q, u, v, w, b-1, d-1 thru h-1, m-1, o-1, r-1, s-1, t-1, v-1, w-1.
Amglo Corp., q, l-1, u-1.
Anton Electronic Labs., Inc., n thru q, t, w-1.
Applied Radiation Corp., u.
Barker Sales Co., h, l, w.
Barry Electronics Corp., a thru y, a-1 thru w-1.
***BEATON & CORBIN MFG. CO., THE, r.**
Bendix Aviation Corp., Red Bank Div., a, b, c, i, j, k, n thru r, t thru x, b-1, d-1 thru k-1, m-1 thru w-1.
Bendix Aviation Corp., York Div.
Bomac Laboratories, Inc., a, b, u, v, x, k-1, p-1, s-1.
Brush Beryllium Co., The, l.
Burroughs Corp., Electronic Tube Div., q, v, x, n-1.
CBS-Hytron, Div.-Columbia Broadcasting System, Inc., g, h, q, w, b-1, d-1, e-1, h-1, n-1, o-1, r-1, s-1, v-1, w-1.
Calvert Electronics Inc., a thru z, a-1 thru x-1.
Carborundum Co., Refractories Div., l.
Central Electronic Mfrs., Div.-Nuclear Corp. of America, a, l, t, x, b-1, e-1, g-1, h-1, i-1, k-1, n-1, p-1, r-1, s-1, u-1, v-1.
DBM Research Corp., k, q, l-1.
Diamonite Products Mfg. Co., l.
R. C. Dudek & Co., w-1.
Edgerton, Germeshausen & Grier, Inc., g, h, l, y, e-1, f-1, k-1, l-1, o-1, x-1.
Eitel-McCullough, Inc., l, u, v, w, b-1, e-1 thru h-1, n-1, r-1, t-1, v-1.
Electrical Refractories Co., The, l.
Electronic Tube Corp., f, g, h.
Electrons, Inc., f-1, o-1.
Engelhard Industries, Inc., s, u-1.
Erie Resistor Corp., l, w.
Ferranti Electric Inc., g, h, l, u, v, x, l-1, p-1, x-1.
Genalex Div.-British Industries Corp., a, b, c, f, g, h, j thru p, t thru z, a-1, b-1, d-1 thru l-1, n-1, o-1, p-1, r-1, s-1, t-1, v-1, w-1.
General Electric Co., Apparatus Sales Div., x-1.
General Electric Co., Cathode Ray Tube Dept., f, g, h.
General Electric Co., X-Ray Dept., x-1.
General Electrodynamics Corp., g, h, j, m, s, z, u-1, v-1.
Gladding, McBean & Co., l.
Glass Engrg. Div., Braun-Knecht-Heimann-Co., p.
Green Rectifier Co., t.
Haledy Electronics Co., v-1.
Herzog Miniature Lamp Works, Inc., e, w-1.
High Vacuum Equipment Corp., t.
Huggins Labs., Inc., h, t-1.
Hughes Aircraft Co., k, g, t-1, v-1.
ITT Labs., a, j, s, u, v, w, o-1, p-1, t-1.
ITT Labs.-Ft. Wayne, g, j, m, r, y, z.
Instruments Div.-Philips Electronics, Inc., o, p, x-1.
Isolantite Mfg. Corp., l.
Kaiser Aircraft & Electronics, Div.-Kaiser Industries Corp., g, v, y.
Kemlite Laboratories, Inc., q, s, l-1, u-1, x-1.
Kip Electronics Corp., c, q, w, m-1, n-1, o-1, v-1, w-1.
Landsverk Electrometer Co., The, n, o, p.
Ling Electronics, Inc., b-1, e-1 thru h-1, o-1, r-1, v-1.
Litton Industries, Inc., b, g, i, u thru x, p-1, t-1.
Mackay Research Labs., g, m, q, s, t, v, y, z, o-1, r-1, v-1.
Menlo Research Lab., u-1.
Mica Fabricating Co., o, p.
Microwave Associates, Inc., a, e, v, p-1, s-1.
Monogram Precision Industries, a, b.
National Beryllia Corp., l.
National Ceramic Co., l.
National Union Electric Corp., h, k, q, w, n-1.
Networks Electronic Corp., l-1.
Norton Co., New Products Dept., l.
Nuclear-Chicago Corp., n, o, p, j-1.
Penta Labs., Inc., b-1, e-1, o-1, r-1, v-1.
Philco Corp., Government & Industrial Div., f, s, t, w, d-1, m-1, n-1.
Philco Corp., Lansdale Tube Co. Div., g, h, w, b-1, d-1, e-1, h-1, m-1, v-1.
Photo-Crystals, Inc., y.
Polarad Electronics Corp., u.
Radiation Research Corp., k-1, w-1.
Radiation Instrument Development Lab., Inc., n, o, p, j-1.
Rauland Corp., The, g, h.
Raytheon Mfg. Co., b, d, f thru l, l, o, p, q, u, v, w, b-1, d-1 thru h-1, m-1, o-1, r-1, t-1, v-1, w-1.
Signalite Inc., w-1.
Sonotone Corp., w, d-1, m-1.
Sperry Electronic Tube Div., Sperry Rand Corp., u, t-1.
Strand Engrg. Co., e.
Stromberg-Carlson Div.-General Dynamics Corp., g.
Sylvania Electric Products Inc., Special Tube Operations, a, b, u, v, o-1, p-1, t-1.
Sylvania Electric Products Inc., Sylvania Electronic Tubes Div., f, g, h.
Sylvania Electric Products Inc., Electronic Tubes-Rec. Tubes Div., a, b, l, u, v, w, d-1, f-1, h-1, m-1, o-1, p-1, v-1.
Technical Apparatus Builders, c, d, l, s, e-1 thru h-1, l-1, w-1.
Thermosen Inc., w, x, d-1, w-1.
Thomas Electronics, Inc., g, h, o-1, v-1.
Triplett & Barton, Inc., x-1.
***ULTRA-VIOLET PRODUCTS, INC., u-1.**
Universal Unlimited, Inc., g.
Vacuum Tube Products, Div.-Hughes Aircraft Co., f, g, h, j, q, t, o-1, b-1, e-1 thru h-1, o-1, r-1, v-1.
Varian Associates, b, u, b-1, r-1, t-1.
Veeco Vacuum Corp., t, o-1.
Veet Industries
Waterman Products Co., Inc., h.
Westinghouse Electric Corp., c, d, g, h, m, n, s, u, v, y, z, b-1, d-1 thru h-1, m-1, o-1 thru v-1.
Zenith Radio Corp., g, t-1, x-1.

TUBES, SHOCK
See SHOCK TUBES

TUBING

a. Aluminum
b. Asbestos
c. Brass or Copper
d. Capillary
e. Ceramic
f. Fibre
g. Finned
h. Flexible Metal
i. Fused Quartz
j. Glass Fibre Insulation
k. Glass, Precision
l. Metal & Alloy
m. Metal Hose, Flexible
n. Mica
o. Molybdenum
p. Monel
q. Nickel
r. Paper
s. Phenolic
t. Plastic
u. Precious Metal
v. Seamless
w. Silver
x. Steel
y. Steel, Stainless
z. Tantalum
a1. Titanium
b1. Tungsten
c1. Varnished or Lacquered
d1. Varnished Cambric Insulation
e1. Waveguide
f1. Woven or Knitted Wire

Adam Metal Supply Inc., a.
Aero Leather Products Co., j.
Aircom Inc. of New Jersey, e-1.
Airtron Inc., Div.-Litton Industries, h, e-1.
All Boro Metal Products Co., Inc., a, p, y.
Allegheny Ludlum Steel Corp., l, v, y.
Allied Plastics Supply Corp., b, f, j, m, n, r, s, t, c-1, d-1.
Alloys Unlimited Inc., u, w.
Almac Plastics Inc., s, t.
Alpha Metals, Inc., l.
Aluminum Co. of America, a.
American Aeroparts, a, c, j, x, y.
American Agile Corp., t.
American Brass Co., The, c, h, m, e-1.
American Instrument Co., Inc., y.
American Optical Co., Instrument Div., k.
American Rocket Co., b, j, s, t.
American Silver Co., c, d, u, v, w.
American Super-Temperature Wires, Inc., j, t.
Ampco Metal, Inc., l, v.
Anaconda Metal Hose Div., The American Brass Co., h, m, t, e-1, f-1.
Anchor Plastics Co., Inc., t.
Aristocrat Plastics, Inc., t.
Armco Steel Corp., x.
Associated Engrg. & Mfg. Corp., e, z, b-1.
Auburn Mfg. Co., The, b, f, t.

B. & C. Insulation Products, Inc., j, c-1, d-1.
Semon Bache & Co., k.
Barker Sales Co., c.
Belmont Smelting & Refining Works, Inc., l.
Bendix Aviation Corp., Red Bank Div.
Bergen Carbide Co., d.
Birnbach Radio Co., Inc., j, c-1, d-1.
J. Bishop & Co., Platinum Works, d, l, p, q, u, v, x, y.
Bonny Mfg. Corp., t.
Borden Chemical Co., t.
Borden Chemical Co., The, Div.-The Borden Co., Resinite Dept., t.
Bram Metallurgical & Chemical Co., a, c, i, l, n thru q, u, v, w, y, z, a-1, b-1.
William Brand & Co., Inc., j, t, c-1, d-1.
Breeze Corporations, Inc., h.
Bridgeport Brass Co., a, c, f, g, l, m, o, p, q, u, v, w, z, a-1.
Brush Beryllium Co., The, e.
California Aircraft Products, a, l, x, y.
Carborundum Co., Refractories Div., e, f.
Carpenter Steel Co., The, l, q, y.
Carpenter Steel Co., The, Alloy Tube Div., l, y, a-1.
Centralab, Div.-Globe-Union, e.
Chase Brass & Copper Co., Inc., a, c, g, l, v, y, e-1.
Chemold Co., t.
Chemplast, Inc., t.
Chicago Gasket Co., t.
Cleveland Container Co., The, b, f, r, s.
Components Corp., h, m, f-1.
Continental Diamond Fibre Corp., f, s, t.
Cooper Industries, Inc., a, c.
Corning Glass Works, d, e, l, k.
Crucible Steel Co. of America, l, p, q, x, y, a-1.
Crystal-X Corp., s, t.
Curtiss-Wright Corp., Research Div., e.
D K Mfg. Co., h, m.
Damascus Tube Co., a, c, g, l, o, p, q, u thru z, a-1, b-1.
Dell Optics Co., Ltd., i, k.
Delta Chemical Works, Inc., l.
Delta Products Div.-Air Accessories, Inc., t.
Demornay-Bonardi, e-1.
Diamonite Products Mfg. Co., e.
Dielectric Materials Co., j, t, c-1, d-1, f-1.
Division Lead Co., l.
Dixon Corp., t.
Douglas Microwave Co., Inc., e-1.
Dow Chemical Co., The, l.
Dunbar-Kapple Inc.-Aircraft Components Div., h, l, m, v, y.
Electric Steel Foundry Co., l, y.
Electrical Insulation Co., Inc., b, f, j, r, s.
Electrical Refractories Co., The, e.
Eljay Corp., s, t.
Empire State Aluminum Corp., a.
Engelhard Industries, Inc., i, l, u, v, w, e-1.
Engelhard Industries Inc., D. E. Makepeace Div., l, u, w, a-1, e-1.
Engineered Plastics, Inc., f, s, t.
Fischer & Porter Co., k.
Fisher Scientific Co., k, t.
Flexaust Co., The, h, m.
Flexible Metal Hose Mfg. Co., h, m.
Flexible Tubing Corp., f, j.
***FLEXONICS CORP., AERONAUTICAL DIV.**, d, h, l, m, x, y, a-1.
Flexrock Co., t.
Fluorulon Labs., Inc., t.
Formica Corp., t.
Form-It Products, Inc., f, r, s.
Franklin Fibre-Lamitex Corp., f, j, s, t.
General American Transportation Corp., t.
General Plastics Corp. of New Jersey, b.
Gering Products, Inc., t.
Gladding, McBean & Co., e.
Glass Engrg. Div. Braun-Knecht-Heimann-Co., k.
B.F. Goodrich Industrial Products Co., t.
Hallett Mfg., Co., h, m.
Halogen Insulator & Seal Corp., s.
Harvey Aluminum, a, l, e-1.
Haveg Industries, Inc., b, e, f, i, j, s, t.
Haynes Stellite Co., Div.-Union Carbide Corp., l, x.
Hayward Scientific Glass Corp., k.
Hitemp Wires Inc., j, t.
Homalite Corp., The, s, t.
Illumitronic Engrg. Co., s, t.
Imperial Brass Mfg. Co., The, t.
Integrated Mica Corp., n.
International Nickel Co., The, l, p, q, v.
Isolantite Mfg. Corp., e.
Jessall Plastics, t.
Johns-Manville, b, f, j, t.
Jonesville Paper Tube Corp., r.
Kaiser Aluminum & Chemical Sales, Inc., a.
Kennametal Inc., z, a-1.
Kensico Tube Co. Inc., c, d, v.
Kip Electronics Corp., e.
Kolcast Industries-Div. Thompson Ramo Wooldridge Inc., p, q, x, y.
Kramer Fabricating Co., The, t.
Lamtex Industries, Inc., f, j, t, e-1.
La Pointe Industries Inc., a.
Lewis & Saunders, g.
Thomas J. Long, Inc., f, r, s, t, c-1, d-1.
Louthan Mfg. Co., The, Div.-Ferro Corp., e.
M & Q Plastic Products, t.
P. R. Mallory & Co. Inc., e-1.
Metal Textile Corp., Electronics Div., h, f-1.
Metals & Controls Corp., General Plate Div., l, u, w, z, a-1, e-1.
Mica Fabricating Co., e, f, i, n, s, t, d-1.
Mica Insulator Div.-Minnesota Mining & Mfg., Co., n, s, t.
Microwave Associates, Inc., e-1.
Minnesota Mining & Mfg. Co., e, h, j, n, r, s, t, c-1, d-1.
Mitronics Inc., e.
Monogram Precision Industries, a, g, l, p, q, r, t, u, x, z, a-1, e-1.
Mueller Brass Co., c, t.
National Beryllia Corp., d, e.
National Ceramic Co., e.
National Lead Co., a-1.
National Tube Div.,-United States Steel Corp., g, l, t, v, x, y.
National Vulcanized Fibre Co., f, s, t.
Natvar Corp., t, c-1, d-1.
New England Electrical Works, Inc., d, f-1.
New England Tape Co., Div.-United-Carr Fastener Corp., t.
Norton Co., e.
Norton Co., New Products Dept., e.
Ohio Seamless Tube Div.-Copperweld Steel Co., v, x.
Omega Labs., Inc., e-1.
Orchard Industries, Inc., Actionflex Div., f, j, t.
Pacific Scientific Co., u.
Pacific Tube Co., x, y.
Parts Engrg. Co., Inc., h, l, m, y.
Penn Fibre & Specialty Co., Inc., f, s, t.
Permacel, t.
Phelps Dodge Copper Products Corp., c, l, v.
Pilgrim Products Inc., f, s, t.
Plastic Age Sales, Inc., j, t.
Polymer Corp., The, s.
Precision Sheet Metal, Inc., j.
Precision Tube Co., Inc., a, c, d, l, p, q, v, x, y.
Raybestos-Manhattan, Inc., b, t.
Raybestos-Manhattan, Inc., Pa., b, j, s, t.
Reinhold Engrg. & Plastics Co., s, t.
Edw. Renneburg & Sons Co., v, x, y.
Resistoflex Corp., a, c, l, t.
Reynolds Metals Co., a.
***RHEEM MFG. CO., DEFENSE & TECHNICAL PRODUCTS DIV.**, f-1.
Roll Formed Products Co., a, x, y.
Rome-Turney Radiator Co., The, g.
Rubbercraft Corp. of California, u.
Joseph T. Ryerson & Son, Inc., a, l, t, v, x, y.
St. Regis Paper Co., Panelyte Div., s, t.
Sanford Plastics Corp., t.
Saylor Electric Products Corp., j, t, c-1.
Schlegel Mfg. Co., f-1.
W. S. Shamban & Co., t.
Sparta Mfg. Co., Div.-U.S. Ceramic Tile Co., t.
Spaulding Fibre Co., Inc., f, j, s, t.
Spectra-Strip Wire & Cable Corp., t.
Stainless Steel Products, Inc., y.
Standard Metals Corp., c, l, u, v, w, e-1.
Standard-Thomson Corp., Clifford Mfg. Co. Div., g, h, m.
Sterling Glass Corp., k.
Stevens Products, Inc., j, r, s.
Superior Steatite & Ceramic Corp., e.
Swan Rubber Co., t.
Telerad Mfg. Corp., e-1, f-1.
Thermal Refractories Corp., e.
Thermal Wire of America, t.
H. I. Thompson Fiber Glass Co., l.
Timken Roller Bearing Co., The, l, v, x, y.
Titanium Metals Corp. of America, e-1.
Titeflex, Inc., h, m.
Tube Distributors Co., Inc., l, o, p, q, v, x, y, a-1.
Tube Methods Inc., l, p, q, v, y.
Tube Reducing Corp., p, v, x, y, e-1.
Turbo Products, Inc., t.
Uniform Tubes, Inc., a, c, q, u thru y.
Union Asbestos & Rubber Co., b, j.
United Mineral & Chemical Corp., q.
U. S. Flexible Metallic Tubing Co., h.
U. S. Industries, Inc.
U. S. Steel Supply Div., United States Steel Corp., a, v, x, y.
United Wire & Supply Corp., a, c, d, g, l, v.
Universal Moulded Products Corp., b, j.
Valpey Crystal Corp., i, k.
Vanadium-Alloys Steel Co., l, p, v, x, y.
Varflex Corp., j, t, c-1, d-1.
Veet Industries, y.
Wall Tube & Metal Products Co., v, y.
Wallingford Steel Co., y.
Waveline, Inc., e-1
Western International Co., e-1.
Western Pneumatic Tube Co., l, o, p, q, y, z, a-1.
Westinghouse Electric Corp., Lamp Div., l, o.
Wilmington Fibre Specialty Co., f, s.
Yardley Plastics Co., t.
Zallea Brothers, h, m.
Zippertubing Co., The, a, b, c, h, i, j, m, t, f-1.

TUBULAR FABRICATIONS & ASSEMBLIES

Advanced Electronics, Inc.
Aerolite Electronics Corp.
Aeroquip Corp., Jackson Div.
Alpitec, Inc.
Amelco, Inc.
American Aeroparts
American Tube Bending Co., Inc.
Anchor Metal Spinning Co., The
Arnolt Corp.
Atlantic Instrument Corp., Sub.-American Electronics, Inc.
B. H. Aircraft Co., Inc.
Basco Metal Products, Inc.
Basic Tool Industries, Inc.
***BEATON & CORBIN MFG. CO., THE**
Bil-Jax Inc.
J. Bishop & Co., Platinum Works
Bridgeport Brass Co.
Brighton Corp.
California Aircraft Products
Carmac Aviation
C. B. Christiansen Co.
Crystal-X Corp.
Damascus Tube Co.
Diversey Engrg. Co.
Dockendorff & Co. Inc.
Doyle & Roth Mfg. Co., Inc.
Double E Products Co.
Dresser Mfg. Div., Dresser Industries, Inc.
Dresser-Ideco Co., Div.-Dresser Industries, Inc.
Dunbar-Kapple Inc.-Aircraft Components Div.
Electrical Insulation Co., Inc.
Electrical & Mechanical Design Co.
Electronic Parts Mfg. Co., Inc.
Farwell Metal Fabricating
Firestone Tire & Rubber Co., The, Guided Missile Div.
Flexible Metal Hose Mfg. Co.
***FLEXONICS CORP., AERONAUTICAL DIV.**
Flori Pipe Co., The
Hallett Mfg., Co.
Hardman Tool & Engrg. Co.
Harvey Aluminum
Houston Fearless Corp.
Hufford Corp., The
Intercontinental Mfg. Co., Inc.
Kaiser Aircraft & Electronics, Div.-Kaiser Industries Corp.
Kanarr Corp.
Keystone Electronics Corp.
Kling Metal Spinning & Stamping Co.
Lamtex Industries, Inc.
Lewis & Saunders
Thomas J. Long, Inc.
Longren Aircraft Co., Inc.
M & Q Plastic Products
Marman Div., Aeroquip Corp.
Mercury Tool & Mfg. Corp.
***MIRAX CHEMICAL PRODUCTS CORP., ELECTRO-MECHANICAL PRODUCTS DIV.**
Monogram Precision Industries
Mueller Brass Co.
New England Tape Co., Div.-United-Carr Fastener Corp.
Newbrook Machine Corp.
Orchard Industries, Inc., Actionflex Div.
Parts Engrg. Co., Inc.
Peerless Products Industries
Penn-Michigan Mfg. Corp.
Piasecki Aircraft Corp.
Pilgrim Products Inc.
Portland Copper & Tank Works Inc.
Precision Sheet Metal, Inc.
Precision Tube Co., Inc.
Pressed Steel Tank Co.
R & R Engrg. Co.
Radiatronics, Inc.
Ravenna Metal Products, Div.-Standard Screw Co.
Red Lion Cabinet Co., Redco Tool Div.
Edw. Renneburg & Sons Co.
Resistoflex Corp.
Rimak, Inc.
Sanford Plastics Corp.
Skinner Precision Products
Skyline Products, Inc.
Stainless Steel Products, Inc.
Standard Metals Corp.
Standard-Thomson Corp., Clifford Mfg. Co. Div.
Tapco Group, Thompson-Ramo-Wooldridge Inc.
Teiner Engrg. Corp.
Turbo Products, Inc.
Twigg Industries
Uniform Tubes, Inc.
United Aircraft Products, Inc.
United Mfg. Co., The
Universal Metal Products Inc.
Variety Aircraft Corp.
Veet Industries
Woolf Aircraft Products, Inc.
Zippertubing Co., The

TUBULAR PINS

See PINS, TUBULAR

TUNERS

a. AM
b. Automatic
c. FM
d. FM & AM
e. Klystron
f. Microwave
g. Permeability
h. Tuning Units, Antenna

Aircom Inc., e, f.
Aircom Inc. of New Jersey, f.
Airtron Inc., Div.-Litton Industries, f.
Airtron Inc., Div.-Litton Industries, f.
Allied International Co., a thru d.
Amelco, Inc., b, c, d, f, g, h.
Atlas Precision Products, Co., h.
Barker & Williamson Inc., h.
Bendix Aviation Corp., York Div., e, f.
Blonder-Tongue Labs., Inc., c, d.
Bogen-Presto Co., Div.-Siegler Corp., The, a, c, d.
Budd Stanley Co. Inc., f.

Centronix Inc., b.
Christie Machine Works, e.
Continental Mfg., Inc., a, c, d.
Daven Co., The, a, c, d.
Demornay-Bonardi, f.
Diamond Antenna & Microwave Corp., e, f, h.
Douglas Microwave Co., Inc., f.
Eastern Industries Inc., e.
Electronic Applications, Inc., c.
Electronic Communications, Inc., a thru d, f, h.
Electronic Instrument Co., Inc. (EICO), a, c, d.
Empire Products Sales Corp., e, f.
Engrg. Associates, e, f.
Erie Resistor Corp., d.
FXR, Inc., f.
Ferrotron Electronics Co., Inc., g.
Forbes & Wagner, Inc., g.
General Communication Co., f.
John Gombos Co., Inc., f.
Hallicrafters, h.
Walter J. Hyatt Co., The, f, h.
ITT Labs., a thru h.
J-V-M Microwave Co., f.
***KEARFOTT CO., INC., f, h.**
***KEARFOTT CO., INC., MICROWAVE DIV., f.**
La Pointe Industries Inc., f.
Lear, Inc., a, b, c, h.
Lear, Inc., Grand Rapids Div., h.
L E L, Inc., f.
Litton Industries, Maryland Div., e.
W. L. Maxson Corp., The, e, f.
Meridian Metalcraft, Inc., f.
Microlab, f.
Microwave Associates, Inc., f.
J. W. Miller Co., a, c, d.
Miratel, Inc., a, c, d.
Motorola Inc., Military Electronics Div., a thru e.
N.R.K. Mfg. & Engrg. Co., f.
Narda Microwave Corp., The, f.
National Pneumatic Co., Inc., Holtzer-Cabot Divs., a, c, d.
Philco Corp., Government & Industrial Div., a thru h.
Polarad Electronics Corp., e, f.
Polytechnic Research & Development Co., Inc., f.
Portchester Instrument Corp., f.
Precise Development Corp., a, c, d.
Radar Design Corp., f.
Radiatronics, Inc., f, h.
Sperry Electronic Tube Div., Sperry Rand Corp., e.
Sperry Microwave Electronics Co., Div.-Sperry Rand Corp., f.
Stromberg-Carlson Div.-General Dynamics Corp., a, c, d.
Superex Electronics Corp., a.
Telectro Industries Corp., a, b, c, h.
Telerad Mfg. Corp., e, f.
Victor R. F. & Microwave Co., f.
Waveline, Inc., f.
Webcor, Inc., Government Div., e, f, h.
Weinschel Engrg., f.

TUNING DEVICES

Atlas Precision Products, Co.
Barker & Williamson Inc.
Blonder-Tongue Labs., Inc.
CGS Labs., Inc.
Centronix Inc.
Christie Machine Works
Collins Radio Co.
Data-Control Systems, Inc.
Eastern Industries Inc.
Electronic Communications, Inc.
Empire Products Sales Corp.
Federal Mfg. & Engrg. Corp.
Instruments For Industry, Inc.
JFD Electronics Corp.
Lear, Inc.
Livingston Electronic Corp.
P. R. Mallory & Co. Inc.
Motorola Inc., Military Electronics Div.
Philco Corp., Government & Industrial Div.
Precise Development Corp.
Radiatronics, Inc.
Slip Ring Co. of America
Specialty Engrg. & Electronics Co.
Telectro Industries Corp.
Telerad Mfg. Corp.
Webcor, Inc., Government Div.

TUNING DEVICES, RECEIVER MECHANICAL

Atlantic Instrument Corp., Sub.-American Electronics, Inc.
Atlas Precision Products, Co.
Centronix Inc.
Collins Radio Co.
Data-Control Systems, Inc.
Erie Resistor Corp.
ITT Labs.
Instruments for Industry, Inc.
Lear, Inc.
Lear, Inc., Grand Rapids Div.
P. R. Mallory & Co. Inc.
W. L. Maxson Corp., The
National Pneumatic Co., Inc., Holtzer-Cabot Divs.
Philco Corp., Government & Industrial Div.
Radiatronics, Inc.
Telectro Industries Corp.
Western Gear Corp.

TUNING DEVICES, TRANSMITTER MECHANICAL

Atlas Precision Products, Co.
Centronix Inc.
Christie Machine Works
Collins Radio Co.
Data-Control Systems, Inc.
ITT Labs.
Instruments For Industry, Inc.
Lear, Inc.
P. R. Mallory & Co. Inc.
W. L. Maxson Corp., The
National Pneumatic Co., Inc., Holtzer-Cabot Divs.
Philco Corp., Government & Industrial Div.
Radiatronics, Inc.
Stainless Steel Products, Inc.
Telectro Industries Corp.
Telerad Mfg. Corp.
Western Gear Corp.

TUNING UNITS, ANTENNA
See ANTENNA TUNING UNITS

TUNNELS, SHOCK
See SHOCK TUNNELS

TUNNELS, WIND
See WIND TUNNELS

TURBINE ASSEMBLIES

Aerojet-General Corp.
Centrax Ltd., American Sales Office
Christie Machine Works
Curtiss-Wright Corp., Research Div.
Curtiss-Wright Corp., Santa Barbara Div.
Curtiss-Wright Corp., Wright Aeronautical Div.
Dresser Industries, Inc.
Hamilton Standard, Div.-United Aircraft Corp.
Houston Fearless Corp.
***LYCOMING DIV., AVCO MFG. CORP.**
Mercury Tool & Mfg. Corp.
Merz Engrg., Inc.
Monogram Precision Industries
Newbrook Machine Corp.
***RHEEM MFG. CO., DEFENSE & TECHNICAL PRODUCTS DIV.**
Ryan Aeronautical Co.
Smith-Morris Corp.
Stalker Corp., The
Stratos, Div.-Fairchild Engine & Airplane Corp.
Tapco Group, Thompson-Ramo-Wooldridge Inc.
Therm, Inc.
Turbo Products, Inc.

TURBINE SHAFTS

Aerojet-General Corp.
***CAMERON IRON WORKS, INC.**
Capital City Mfg. Co.
Christie Machine Works
Curtiss-Wright Corp.-Research Div.
Curtiss-Wright Corp.-South Bend Div.
Curtiss-Wright Corp.-Wright Aeronautical Div.
Diversey Engrg. Co.
Dresser Industries, Inc.
Federal Machine Co. Inc.
Houston Fearless Corp.
Merz Engrg., Inc.
Newbrook Machine Corp.
Stratos Div.-Fairchild Engine & Airplane Corp.
Tapco Group, Thompson-Ramo-Wooldridge Inc.
Talley Corp., The
Tube-Turns Div., Chemetron Corp.
Turbo Products, Inc.
Walbar Machine Products Inc.
Western Gear Corp.

TURBINE WHEELS

Aerojet-General Corp.
***AIRESEARCH MFG. CO., DIV.-THE GARRETT CORP.**
Bendix Utica Div., Bendix Aviation Corp.
***CAMERON IRON WORKS, INC.**
Capital City MFG. Co.
Centrax Ltd., American Sales Office
Christie Machine Works
Curtiss-Wright Corp.-Research Div.
Curtiss-Wright Corp.-South Bend Div.
Curtiss-Wright Corp.-Wright Aeronautical Div.
Diversey Engrg. Co.
Dresser Industries, Inc.
Federal Machine Co. Inc.
Hamilton Standard, Div.-United Aircraft Corp.
Haynes Stellite Co., Div.-Union Carbide Corp.
Houston Fearless Corp.
Jarvis Corp.
Kelsey-Hayes Co.
Merz Engrg., Inc.
Newbrook Machine Corp.
Parker-Hartford Corp., The
Singer Mfg. Co., The, Military Products Div.
Stalker Corp., The
Steel Improvement & Forge., The
Stratos, Div.-Fairchild Engine & Airplane Corp.
Tapco Group, Thompson-Ramo-Wooldridge Inc.
Talley Corp., The
Therm, Inc.
Turbo Products, Inc.
Walbar Machine Products Inc.
Western Gear Corp
Westinghouse Electric Corp.

TURBINES, AIR

Aerojet-General Corp.
***AIRESEARCH MFG. CO. OF ARIZ.**
***AIRESEARCH MFG. CO., DIV.-THE GARRETT CORP.**
Bendix Utica Div., Bendix Aviation Corp.
Christie Machine Works
Coppus Engrg. Corp.
Curtiss-Wright Corp., Research Div.
Curtiss-Wright Corp., Wright Aeronautical Div.
General Electric Co., Apparatus Sales Div.
Hamilton Standard, Div.-United Aircraft Corp.
Houston Fearless Corp.
Lear Inc., Lear-Romec Div.
Stainless Steel Products, Inc.
Stratos, Div.-Fairchild Engine & Airplane Corp.
Tapco Group, Thompson-Ramo-Wooldridge Inc.
Therm, Inc.
Turbo Products, Inc.

TURBO FANS

***AIRESEARCH MFG. CO., DIV.-THE GARRETT CORP.**
Bendix Utica Div., Bendix Aviation Corp.
Blowers Inc.
Curtiss-Wright Corp.-Wright Aeronautical Div.
Dresser Industries, Inc.
General Electric Co., Apparatus Sales Div.
Houston Fearless Corp.
Jarvis Corp.
Monogram Precision Industries
Newbrook Machine Corp.
Smith-Morris Corp.
Stalker Corp., The
Tapco Group, Thompson-Ramo-Wooldridge Inc.
Talley Corp., The
Therm, Inc.

TURBO JET ENGINES

***AIRESEARCH MFG. CO. OF ARIZ.**
***AIRESEARCH MFG. CO., DIV.-THE GARRETT CORP.**
Curtiss-Wright Corp., Research Div.
Curtiss-Wright Corp., Santa Barbara Div.
Curtiss-Wright Corp., Wright Aeronautical Div.
General Electric Co., Apparatus Sales Div.
***LYCOMING DIV., AVCO MFG. CORP.**
Smith-Morris Corp.
Westinghouse Electric Corp.

TURBO PUMPS

Aerojet-General Corp.
***AIRESEARCH MFG. CO., DIV.-THE GARRETT CORP.**
Bendix Utica Div., Bendix Aviation Corp.
J. C. Carter Co., The
Chandler Evans Corp.
Christie Machine Works
Curtiss-Wright Corp., Santa Barbara Div.
Curtiss-Wright Corp., Utica Div.
Curtiss-Wright Corp., Wright Aeronautical Div.
Dresser Industries, Inc.
Eastern Industries Inc.
General Electric Co., Apparatus Sales Div.
Hamilton Standard, Div.-United Aircraft Corp.
Hydrodyne Corp., Skinner Seal Div.
Lear Inc., Lear-Romec Div.
Reaction Motors Div., Thiokol Chem. Corp.
Rocketdyne Div.-North American Aviation, Inc.
Stalker Corp., The
Stratos, Div.-Fairchild Engine & Airplane Corp.
Tapco Group, Thompson-Ramo-Wooldridge Inc.
Therm, Inc.

TURNTABLES, SOUND EQUIPMENT

Du Kane Corp.
Electronic Applications, Inc.
Kaiser Aircraft & Electronics, Div.-Kaiser Industries Corp.
Robot Industries Inc.
Wakefield Engrg. Co.

TURRETS, CAMERA

Gordon Enterprises
Houston Fearless Corp.
Luther Mfg. Co.
Kelsey-Hayes Co.
Monogram Precision Industries
Wollensak Optical Corp.

TWIST DRILLS
See DRILLS, TWIST

UHF TRANSCEIVERS
See TRANSCEIVERS, UHF

ULTRASONIC CLEANERS
See CLEANERS, ULTRASONIC

ULTRASONIC EQUIPMENT

Andersen Labs.
Arenberg Ultrasonic Lab., Inc.
Associated Engineers, Inc.
Atlantic Research Corp.
Bearing Inspection, Inc.
Bendix Aviation Corp., Pioneer-Central Div.
Bendix Radio Div., Bendix Aviation Corp.
Birtcher Corp., The
Blackstone Corp.
Branson Instruments, Inc.
Branson Ultrasonic Corp.
Chesapeake Instrument Corp.
Corning Glass Works
Curtiss-Wright Corp., Princeton Div.
Curtiss-Wright Corp., Research Div.

Detrex Chemical Industries, Inc.
Du Kane Corp.
Engrg. Associates
General Electric Co., Apparatus Sales Div.
General Kinetics, Inc.
Gulton Industries, Inc.
Kin Tel Div.-Cohu Electronics, Inc.
Ling Electronics, Inc.
Magnaflux Corp.
Maico Electronics, Inc.
Marquardt Aircraft Co.
Massa Div.-Cohu Electronics, Inc.
McKenna Labs.
Narda Ultrasonics Corp., The
National Ultrasonic Corp.
Pacific Radionics
Pioneer Industries Div., Almar-York Co. Inc.
Power Supplies Inc.
Raytheon Mfg. Co.
Sangamo Electric Co.
Sargeant & Wilbur Heat Treating Corp.
Sheffield Corp., The, Sub.-Bendix Aviation Corp.
Sperry Products, Inc.
Transdyne Corp.
Twenty-First Century Electronics, Inc.
Westinghouse Electric Corp.
Wye Industries
Zacharias Electronics Corp.

ULTRASONIC SOLDERING EQUIPMENT
See SOLDERING EQUIPMENT, ULTRASONIC

ULTRASONIC VIBRATORS
See VIBRATORS, ULTRASONIC

UNITS, PLUG-IN-CIRCUIT
See PLUG-IN-CIRCUIT UNITS

UNITS, PRESSURIZATION
See PRESSURIZATION UNITS

UNITS, REVERBERATION
See REVERBERATION UNITS

UPSET FORGINGS
See FORGINGS, UPSET

UPSET FORMS
See FORMS, UPSET

VACUUM ALUMINIZERS

Consolidated Electrodynamics Corp., Rochester Div.
Eisler Engrg. Co., Inc.
General Vacuum Corp.
Green Rectifier Co.
High Vacuum Equipment Corp.
Hull Corp.
Kinney Mfg. Div., The New York Air Brake Co.
Metaplast Corp.
NRC Equipment Corp.
National Research Corp.
Scientific Engrg. Labs., Inc.
F. J. Stokes Corp.
Swedlow Inc.
Temperature Engrg. Corp.
Varian Associates
Veeco Vacuum Corp.

VACUUM SYSTEMS & CONTROLS

Alfred Electronics
American Machine & Foundry Co., Greenwich
Applied Radiation Corp.
Aro Equipment Corp.
***ASSOCIATED TESTING LABS., INC.**
Astravac Corp.
Beach-Russ Co.
Bristol Co., The
Central Electronic Mfrs., Div.-Nuclear Corp. of America
Conoflow Corp.
Consolidated Controls Corp.
Consolidated Diesel Electric Corp.
Consolidated Electrodynamics Corp., Rochester Div.
Cornelius Co., The, Aero Div.
Croll-Reynolds Co. Inc.
General Vacuum Corp.
Giannini Plasmadyne Corp.
Green Rectifier Co.
Guardite Co., Div. of American Marietta Co.
Paul Hardeman, Inc.
High Vacuum Equipment Corp.
Hull Corp.
Hydromatics, Inc.
International Pump & Machine Works
***JANITROL AIRCRAFT DIV., SURFACE COMBUSTION CORP.**
Kinney Mfg. Div., The New York Air Brake Co.
Lear, Inc.
Litton Engrg. Labs.
Metaplast Corp.
Minneapolis-Honeywell Regulator Co., Industrial Div.
Minneapolis-Honeywell Regulator Co., Industrial Product Group
John Mohr & Sons
NRC Equipment Corp.
National Research Corp.
Oxygen Equipment & Service Co.
Pneu-Hydro Valve Corp.
Process & Instruments
Red Point Corp.
Research Appliance Co.
Scientific Engrg. Labs., Inc.
Skyline Electric & Mfg. Co.
Space Corp.
F. J. Stokes Corp.
Temperature Engrg. Corp.
United Electric Controls Co.
Vacuum Tube Products, Div.-Hughes Aircraft Co.
Varian Associates
Veeco Vacuum Corp.

VACUUM TUBE MEGOHMETERS
See MEGOHMETERS, VACUUM TUBE

VACUUM UNITS

Applied Radiation Corp.
Beach-Russ Co.
Central Electronic Mfrs., Div.-Nuclear Corp. of America
Consolidated Electrodynamics Corp., Rochester Div.
Cornelius Co., The, Aero Div.
Finnell System, Inc.
General Vacuum Corp.
Giannini Plasmadyne Corp.
Green Rectifier Co.
Guardite Co., Div. of American Marietta Co.
High Vacuum Equipment Corp.
Hull Corp.
International Radiant Corp.
Kinney Mfg. Div., The New York Air Brake Co.
Lear, Inc.
Lear Inc., Lear-Romec Div.
Leiman Brothers, Inc.
NRC Equipment Corp.
National Research Corp.
Red Point Corp.
Research Appliance Co.
Scientific Engrg. Labs., Inc.
F. J. Stokes Corp.
Temperature Engrg. Corp.
Veeco Vacuum Corp.

VALVE GUIDES

***ANNIN CO., THE**
Capital City Mfg. Co.
Huppert, K. H., Co.

VALVE OPERATOR

***ANNIN CO., THE**
Bristol Co., The
Conoflow Corp.
Fisher Governor Co.
Holex, Inc.
Hoover Electric Co.
Hydra-Power Corp.
Hydromatics, Inc.
Leslie Co.
Mason-Neilan
Minneapolis-Honeywell Regulator Co., Industrial Product Group
Morse Instrument Co., The
Research Controls
Ronson Hydraulic Units Corp.
Sargent Engrg. Corp.
Skinner Electric Valve Div.
Talley Corp., The
Vacuum Research Co.

VALVE OPERATOR, ELECTRIC

***ANNIN CO., THE**
Bart Mfg. Corp.
Bendix-Pacific Div., Bendix Aviation Corp.
Bristol Co., The
Conoflow Corp.
Hammel-Dahl Div.-General Controls Co.
Hoover Electric Co.
Hydra-Power Corp.
Mason-Neilan
Minneapolis-Honeywell Regulator Co., Industrial Product Group
Skinner Electric Valve Div.
Talley Corp., The
Valcor Engrg. Corp.
Walworth Co.

VALVE OPERATOR, HYDRAULIC

Adel Precision Products of California, Div.-General Metals Corp.
American Machine & Foundry Co., Government Products Group
American Measurement & Control, Inc.
***ANNIN CO., THE**
Astronautics Engrg. Co.
Bendix-Pacific Div., Bendix Aviation Corp.
Bristol Co., The
Capital City Mfg. Co.
Fisher Governor Co.
Hammel-Dahl Div.-General Controls Co.
Hydra-Power Corp.
Hydromatics, Inc.
Kemp Aero Products
Ledeen Inc.
Leslie Co.
Mason-Neilan
Ozone Metal Products Corp.
Research Controls
Ronson Hydraulic Units Corp.
Sargent Engrg. Corp.
Sirvalco Systems Corp.
Walworth Co.
Weston Hydraulics Ltd.-Sub., Borg-Warner Corp.

VALVES

a. Accumulator Charging
b. Acid
c. Acid Resistant
d. Air
e. Anti-Gravity
f. Automatic Shutoff
g. Automatic Shutoff, Hydraulic
h. Bleeder
i. By-Pass
j. Check & Check Relief
k. Check-Hydraulic, Gas
l. Control
m. Diaphragm
n. Dump
o. Electronic Solenoid
p. Engine Inlet
q. Exhaust
r. Float
s. Globe
t. Helium
u. High Pressure Gas
v. Hydraulic System
w. Hydrogen
x. Motor Operated
y. Needle
z. Plug
a1. Pneumatic
b1. Power Control
c1. Pressure Regulating
d1. Relief & By-Pass
e1. Restrictor
f1. Rocket Fuel
g1. Rotary
h1. Sequence
i1. Servo
j1. Shuttle
k1. Shuttle Solenoid
l1. Solenoid
m1. Strainer
n1. Suction Regulating
o1. Surge
p1. Thermostatic
q1. Throttling
r1. Transfer
s1. Vacuum Selector & Check
t1. Vapor Tight
u1. Venturi Opening

ACF Industries Inc., b, c, j, k, m, o, u, v, y, a-1, c-1, d-1, k-1, l-1, p-1.
Accessory Products Co., Div.-Textron Inc., a, d, e, f, j thru o, s thru x, a-1, b-1, c-1, f-1 thru n-1, p-1, r-1, s-1, t-1.
Actuation Research Corp., d, t thru x, a-1, c-1.
Adel Precision Products of California, Div.-General Metals Corp., d, f, g, i thru l, n, o, u, v, a-1, b-1, d-1, g-1, h-1, j-1, l-1.
Aero Gasket Corp., m.
Aero Supply Mfg. Inc., b thru o, r, t thru x, b-1 thru r-1.
Aerojet-General Corp., b, d, f, g, n, u, v, w, z, a-1, c-1, f-1, i-1, q-1.
Aeronautical & Instrument Div., Robertshaw-Fulton Controls Co., t.
Aerotec Corp., The, d, f, g, j, l, r, t thru x, a-1, c-1, d-1, j-1, k-1, l-1, n-1, t-1 u-1.
Airaterra, g, w, f-1.
Airborne Research & Development Corp., j, l, o, u, c-1, d-1, h-1, s-1.
***AIRESEARCH MFG. CO. OF ARIZ.**, c, d, f, h thru q, t, u, w, z, a-1 thru e-1, h-1, k-1, p-1, q-1, s-1, t-1, u-1.
***AIRESEARCH MFG. CO., DIV.-THE GARRETT CORP.**, c, d, f thru o, u thru x, a-1, c-1, d-1, f-1, i-1, l-1, n-1 thru r-1.
Alco Valve Co., c, o, r, v, b-1, l-1.
All Specs Corp., h, i, j, s, y, z, e-1, j-1.
Allen Aircraft Products, Inc., d, i, j, k, n, r, v, a-1, d-1, f-1, o-1, s-1.
Allenair Corp., d, h, j, a-1, j-1, l-1.
Allied Control Co., Inc., l-1.
Allmetal Screw Products Co., Inc., s.
Alloy Steel Products Co., b, c, j, s, u, w thru z, f-1, g-1.
Altair, Inc. d, f, g, j, k, o, u, v, a-1, c-1, j-1, l-1, p-1 thru s-1, u-1.
American Aeroports, a, f thru l, n, r, s, x, y, z, g-1 thru p-1, s-1.
American Brake Shoe Co., a-1.
American Brake Shoe Co., Kellogg Div., a-1.
American Felt Co., k, u, y.
American Instrument Co., Inc., h, j, o, s, u, y, a-1, d-1.
American Measurement & Control, Inc., l, o, v, x, b-1, i-1, r-1.
American Standard Products, Inc., a thru z, a-1 thru u-1.
Ampco Metal, Inc., c.
***ANDERSON, GREENWOOD & CO.**, c, d, j, l, n, s thru z, a-1, d-1, q-1.
***ANNIN CO., THE**, g, j, l, m, s thru y, a-1, b-1, c-1, f-1, h-1, i-1, m-1, q-1, t-1.
Applied Dynamics Corp., j, m, c-1.
Arnav Aircraft Associates, Inc., h.
ARO Equipment Corp., d, e, f, j, u, a-1, c-1, d-1, e-1.
Astronautics Engrg. Co., a, e, f, g, i, n, v, c-1, d-1, i-1, j-1.
Automatic Switch Co., b, c, d, i, j, l thru q, s, t, u, w, x, y, a-1, b-1, d-1, f-1, l-1.
Auto-Valve Inc., h, j, n, e-1, l-1, m-1.
Barber-Colman Co., d, f, j, l, x, a-1.
Barksdale Valves, d, e, u, a-1, l-1.

Bart Mfg. Corp., a thru d, f, h, i, o, q, s thru w, a-1, d-1, f-1, l-1, o-1, s-1.
Bell Aircraft Corp., Niagara Frontier Div., i-1.
Benbow Mfg. Corp., d, h thru m, u, v, x, a-1, c-1, d-1, e-1, h-1, l-1.
***BENDIX AVIATION CORP., HAMILTON DIV.**, v, i-1.
Bendix Aviation Corp., Pioneer-Central Div., i, j, c-1, d-1.
***BENDIX PRODUCTS DIV., BENDIX AVIATION CORP.**, o, l-1.
Bendix-Pacific Div., Bendix Aviation Corp., a, d, f, g, i, l thru o, v, x, y, z, a-1 thru d-1, g-1 thru l-1, r-1.
Bendix Utica Div., Bendix Aviation Corp., d, f thru o, u, a-1 thru d-1, h-1, i-1, l-1, n-1, q-1.
Bobrick Mfg. Corp., c, d, g, i thru o, u, v, x, a-1, b-1, d-1, e-1, f-1, j-1, l-1, n-1, s-1.
Bridgeport Thermostat Div., Robertshaw-Fulton Controls Co., f, g, j, k, o, v, a-1, l-1.
Bristol Co., The, f, l, m, q, x, a-1 thru d-1, p-1.
Burklyn Co., j, k, v, a-1.
CDC Control Services, Inc., v, i-1.
Cadillac Gage Co., u, a-1, b-1, i-1.
Caltron Products Co., q, k-1, l-1.
***CAMERON IRON WORKS, INC.**
Capital City Mfg. Co., d, j, y.
Captive Seal Corp., b, d, f thru l, n, o, t thru x, a-1, c-1 thru f-1, h-1, l-1, q-1, t-1.
Carleton Aviation Co., d, l, t, u, v, a-1, c-1, e-1, f-1, h-1.
Carmac Aviation
Carruthers & Fernandez, Inc., d, i, j, k, o, v, a-1, c-1, d-1, e-1, k-1, l-1.
J. C. Carter Co., The, f, i, l, n, r, x, c-1, d-1, f-1, n-1, r-1.
Carter Controls, Inc., a-1, l-1.
A. W. Cash Valve Mfg. Corp., l, m, a-1, c-1, d-1.
Chandler Evans Corp., d, f, i thru m, t, u, w, a-1 thru f-1, i-1, p-1, q-1, t-1.
Chase Brass & Copper Co., Inc., j, l, s, y.
Chrysler Corp., Defense Operations Div., f-1.
Clark Equipment Co., v.
Clary Dynamics, a thru l, n, o, q, t thru x, a-1 thru t-1.
Cleveland Pneumatic Industries, Inc., a, f thru l, n, q, z, h-1 thru l-1.
Clippard Instrument Lab., Inc., d, h, j, l, o, y, a-1, e-1, l-1.
Collins Engrg. Corp., e, h, j.
Com-Air Products, Div.-A S R Products Corp., d, f thru l, n, o, t thru y, a-1, c-1, d-1, i-1, l-1.
Commercial Shearing & Stamping Co., v.
Components Corp., a thru i, n, o, t thru x, z, a-1 thru g-1, i-1, l-1, n-1, q-1, r-1, t-1.
Conoflow Corp., b, c, d, l, m, s, x, a-1, c-1, q-1.
Consolidated Controls Corp., b, d, f, g, i thru l, o, p, r, v, x, a-1 thru d-1, f-1 thru l-1, n-1 thru q-1, s-1, t-1.
Consolidated Diesel Electric Corp., d, h thru m, s thru z, a-1, c-1, d-1, f-1, i-1, l-1, p-1.
Consolidated Diesel Electric Corp., Test Equip. Div., j, k, v.
Controls Co. of America, l, c-1, l-1, p-1.
Coppus Engrg. Corp., f, m, n, l-1.
Cornelius Co., The, Aero Div., d, e, f, h thru o, u, a-1, c-1, d-1, e-1, j-1, n-1.
Crane Co., b, c, j, m, s, u, x, y, z, f-1, q-1.
Crystal-X Corp., j.
Curtis Automotive Devices, Inc., d, h, n.
Curtiss-Wright Corp., Marquette Div., y.
Darling Valve & Mfg. Co., b, c, d, i, j, x.
Denison Engrg. Div., American Brake Shoe Co., g thru j, l, o, v, b-1, c-1, d-1, h-1, j-1, k-1, l-1, o-1, q-1.
Dukes Co., Inc., l, v.
Dumont Aircraft Fitting Co., b, f, g, j, k, m, o, q, s thru x, a-1, c-1, d-1, f-1 thru i-1, l-1, m-1, p-1, u-1.
Dynamic Controls Corp., c, d, l, n, o, r, u, v, a-1, c-1, f-1, i-1, l-1, p-1.
Dynamic Devices, Inc., f-1.
Eastern Industries Inc., v, i-1.
Eckel Valve Co., a thru d, f thru i, l, n, o, t thru w, e-1, f-1, l-1, r-1, t-1.
Electric Auto-Lite Co., The, o, i-1, l-1.
Electrol Inc., i, j, n, v, y, z, b-1, c-1, d-1, g-1, h-1, j-1, l-1, q-1.
Electro-Tech Equipment Co., l-1.
Emerson Electric Mfg. Co., The, Electronics & Avionics Div., v, i-1.
Engineered Products Co., The, j, y.
Essex Mfg., Co., Inc., d, g, i, j, a-1.
Fairbanks Co., The, d, j, s, y, q-1.
Firestone Tire & Rubber Co., The, Guided Missile Div., d.
Firewel Co., Inc., The, l, q, c-1.
Fischer & Porter Co., l, c-1.
Fisher Governor Co., f, l, m, r, u, x, a-1, c-1, d-1.
Flight Refueling, Inc., b, c, d, j, l, r, e-1, f-1.
Fluid Regulators Corp., h, j, k, v, y, c-1 thru f-1, h-1, l-1.
Frebank Co., a, d, i thru l, n, t thru w, a-1, c-1, d-1, h-1, l-1.
Fulton-Irgon Corp., The
Futurecraft Corp., c, d, f, g, i thru m, p, t, u, x, a-1, c-1 thru f-1, j-1, k-1, l-1, q-1, s-1.
GAR Precision Parts, Inc., k, v, a-1, c-1, e-1.
Galland-Henning Nopak Div., d, l, v, a-1, l-1.
General Electric Co., Apparatus Sales Div., i-1.
Greer Hydraulics, Inc., a, c, g, h, j, k, l, v, y, z, a-1, e-1.
Grinnell Co., b, c, d, f, g, i, l, m, n, t, v, w, x, a-1, b-1, c-1, f-1, q-1, t-1.
Grove Valve & Regulator Co., d, f, g, h, j, l, m, s thru y, a-1, c-1, d-1, f-1, l-1, q-1, u-1.
Guided Missile Div.- De Havilland Aircraft of Canada, Ltd., g, a-1, d-1, q-1.
B. H. Hadley, Inc., b thru p, r, t thru z, a-1 thru l-1, n-1, a-1, q-1 thru u-1.
Hagan Chemicals & Controls, Inc., l.
Hamer Valves, Inc., c, u, w, x, z, f-1, t-1, u-1.
Hamilton Standard, Div.-United Aircraft Corp., d, i, m, n, p, u, a-1, c-1, d-1, i-1.
Hammel-Dahl Div.-General Controls Co., b, c, d, f, g, j, l, m, s thru y, a-1, c-1, d-1, f-1, l-1, q-1, u-1.
Hannifin Co., Div.-Parker-Hannifin Corp., j, k, o, a-1, c-1, e-1, l-1.
Haskel Engrg. & Supply Co., a thru d, f thru o, s thru w, y, z, a-1 thru e-1, g-1, h-1, i-1, l-1.
Haveg Industries, Inc., b, c.
High Vacuum Equipment Corp., s-1.
Highland Rim Machine Works Inc., f-1.
Hills-Mc Canna Co., b, c, m.
Hoefner Corp., a thru d, f thru m, t thru w, a-1 thru f-1, i-1, p-1, q-1.
Hoke Inc., c, d, i, k, l, m, s, t, u, y, c-1, l-1, q-1.
Holex, Inc.
Hoof Products Co., g, j, k, n, v, x, c-1, j-1.
Hoover Electric Co., b, d, l, o, v, x, g-1, h-1, l-1, q-1, r-1.
Hughes Tool Co., Aircraft Div.
Walter J. Hyatt Co., The, b, d, g thru m, o, u, v, w, y, z, a-1, c-1 thru j-1, l-1, o-1, s-1, t-1.
Hydra-Power Corp., d, f thru l, n, o, u, v, x, a-1, b-1, d-1, g-1 thru l-1, r-1.
Hydraulic Press Mfg. Co., The, Div.-Koehring Co., v, d-1, l-1.
***HYDRO-AIRE CO., DIV.-CRANE CO.**, c, d, f thru o, r thru l-1.
Hydrodyne Corp., Skinner Seal Div., b, c, d, i, j, k, m thru q, t, u, v, x, a-1 thru d-1, f-1, j-1 thru m-1, t-1.
Hydromatics, Inc., b, c, d, f thru i, l, n, p, t thru x, z, a-1 thru d-1, f-1, g-1, h-1, n-1, o-1, q-1 thru u-1.
Imperial Brass Mfg. Co., The, l, m, v, y, z.
Industrial Engrg. Corp., v, c-1.
Integral Corp., a thru d, f thru o, u, v, y, a-1, c-1, d-1, e-1, i-1 thru m-1, s-1.
Interstate Engrg Corp., d thru j, l, n, r, t, u, v, x, a-1, c-1, d-1, g-1 thru l-1, q-1, r-1.
James, Pond & Clark, Inc., b, c, d, h, j, t thru w, z, a-1, d-1, e-1, f-1, j-1.
Jamesbury Corp., b, d, x, a-1, f-1, t-1.
***JANITROL AIRCRAFT DIV., SURFACE COMBUSTION CORP.**, d, f, h, i, j, l, m, n, a-1, c-1, d-1, h-1.
Jerguson Gage & Valve Co., s.
Kaiser Aircraft & Electronics, Div.-Kaiser Industries Corp., n.
***KEARFOTT CO., INC.**, i-1.
Kemp Aero Products, a thru o, s thru z, a-1 thru i-1, p-1, q-1, r-1.
Walter Kidde & Co., Inc., Aviation Div., j, u, a-1, c-1, d-1, h-1, i-1, l-1.
Kieley & Mueller, Inc., c, l, m, s, t, u, w, z, c-1, q-1.
Kinney Mfg. Div., The New York Air Brake Co., s-1.
Koehler Aircraft Products Co., d, f, l thru r, u, w thru z, a-1, b-1, d-1, f-1, h-1, i-1, l-1, m-1, a-1, q-1, r-1.
Kohler Co., d, f thru l, n, r, v, y, z, a-1, c-1, d-1, e-1.
***KOONTZ-WAGNER ELECTRIC CO., INC.**, a thru d, f, h, i, l, o, u, v, b-1, f-1, j-1, k-1, l-1.
Ladish Co., c, j, l, s, y, z, m-1.
Lear, Inc., l, u, v, x, a-1, i-1.
Lear, Inc., Grand Rapids Div., l, i-1.
Lear, Inc., Lear-Romec Div., v, a-1, c-1, i-1.
Ledeen Inc., l, a-1.
***WALLACE O. LEONARD, INC.**, d, f, g, i, k, l, n thru q, t thru w, a-1, c-1 thru f-1, h-1, i-1, l-1, a-1, h, j, s-1.
Leslie Co., c, d, f, g, l, m, o, u, v, x, a-1, c-1, d-1, f-1, i-1, l-1, n-1, p-1, q-1, r-1, t-1, u-1.
Linde Co., Div.-Union Carbide Corp., t, u, w.
G. W. Lisk Co. Inc., k-1, l-1.
Lundy Mfg. Corp., d, f, l, x.
Luzerne Rubber Co., c.
M. C. Mfg. Co., i, j, l, o, t thru w, a-1 thru e-1, g-1, h-1, j-1, l-1, r-1.
Marotta Valve Corp., b, c, d, f thru l, o, t thru w, a-1, c-1, d-1, f-1, h-1, j-1, k-1, l-1.
Jas. P. Marsh Corp., d, l, s, t, u, y, c-1, l-1, p-1.
Mason-Neilan, f, i, l, m, r, x, a-1, c-1, n-1.
Matheson Co., Inc., The, j, t, u, w, c-1.
Mechanical Air Controls, Inc., l, o, a-1, h-1, l-1, n-1, s-1.
Minneapolis-Honeywell Regulator Co., Industrial Product Group, b, c, d, f, i, l, m, n, u, x, a-1, c-1, f-1, q-1.
Minneapolis-Honeywell Regulator Co., Ordnance Div., v, a-1.
J. J. Monaghan Co., Inc., d.
Monogram Precision Industries
Moog Valve Co., Inc., g, v, i-1.
Mueller Brass Co., i, j, m, s, d-1, l-1, q-1.
NRC Equipment Corp., s, q-1, s-1.
National Airoil Burner Co., d, s, y, z.
National Pneumatic Co., Inc., Holtzer-Cabot Divs., a-1, l-1.
National Research Corp., s-1.
Natl. Water Lift Co., Div.-Cleveland Pneumatic Industries, Inc., l, i-1.
National Welding Equipment Co., d, h, j, t, u, w, y.
OPW-Jordan, c, d, f, i, j, l, m, c-1, d-1, p-1.
Oil-Dyne, Inc., i, j, k, m, l-1.
Oliver Corp., The, v.
Owatonna Tool Co., v.
Ozone Metal Products Corp., a, g, h, j, k, l, v, y, a-1, d-1, e-1, i-1 thru l-1.
Pacific Scientific Co., l-1.
Pacific Valves, Inc., c, g, i, s, x, y.
Parker Aircraft Co., a thru p, r, t thru z, a-1 thru r-1.
Parker Hydraulics Div., Parker-Hannifin Corp., a, j, k, l, v.
Peerless Machine Co., c, d, h, j, k, t, u, v, g-1, t-1.
Pennsylvania Pump & Compressor Co., d.
Pesco Products Div.-Borg-Warner Corp., i-1.
Pneu-Hydro Valve Corp., a thru z, a-1 thru t-1.
Power-Tronic Systems Inc., i-1.
Precision Equipment Co., Inc., b, c, d, f, i, j, o, t thru w, y, a-1, d-1, e-1, f-1, l-1, m-1, q-1, t-1, u-1.
Puritan Compressed Gas Corp., Aviation Div., u.
Racine Hydraulics & Machinery Inc., g, v.
Randall Engrg. Corp., a thru d, f, g, j, k, m, n, t, u, v, z, a-1, c-1, d-1, l-1.
Reaction Motors Div., Thiokol Chem., Corp., f, i thru l, n, t, u, c-1, d-1, f-1, i-1, r-1.
Reinhold Engrg. & Plastics Co., a-1.
Republic Mfg. Co., a, c, d, f thru o, s thru z, a-1, c-1 thru h-1, j-1, l-1, m-1, q-1, s-1.
Research Controls, b, c, d, l, m, t, u, w, x, y, a-1, c-1, f-1, q-1, r-1, t-1.
Rivett Lathe & Grinder Inc., d, j, k, l, o, v, a-1, c-1, d-1, h-1, l-1.
Robbins Aviation, Inc., c, d, s thru y, a-1, q-1.
Rocketdyne Div.-North American Aviation, Inc.
Ronson Hydraulic Units Corp., a, d, f thru l, n, o, t thru w, a-1 thru e-1, g-1, h-1, j-1, k-1, l-1, a-1, r-1.
Rotex Punch Co., Inc., d, h, v, a-1, k-1, l-1.
Milton Roy Co., d-1.
Roylyn Inc., g, w, f-1.
Ryan Aeronautical Co., q.
S-P Mfg. Corp., The, a-1.
Sargent Engrg. Corp., d, f thru m, o, t thru x, a-1, thru e-1, g-1 thru l-1, a-1, q-1, r-1.
Schutte & Koerting Co., h, i, q, s.
Scientific Engrg. Labs., Inc., s-1.
Sealol Corp., j, k, n, v, d-1, f-1.
Servomechanisns, Inc., i-1.
Simmonds Aerocessories, Inc., b, c, d, f, g, l, m, s thru y, a-1, c-1, f-1.
Sinclair-Collins Valve Co., Div.-IBEC, a, d, k, l, m, o, q, s thru v, a-1, c-1, h-1, j-1, l-1, q-1 thru t-1.
Sirvalco Systems Corp., b, c, d, f, g k thru q, t thru x, a-1, c-1, e-1 thru i-1, l-1, q-1, t-1.
Skinner Electric Valve Div., c, d, f, g, l, o, t, u, w, a-1, f-1, l-1.
Skyvalve Inc., b, c, d, h, l thru o, s thru v, z, a-1, c-1, j-1, k-1, l-1, a-1, q-1.
Smith-Morris Corp., z.
Solar Aircraft Co., a, l, a-1, d-1.
Standard Controls, Inc., i-1.
Standard-Thomson Corp., Clifford Mfg. Co. Div., h, i, n, a-1, c-1, d-1, p-1, s-1.
F. J. Stokes Corp., s-1.
A. U. Stone & Co., Inc., b, c, d, f, g, h, j, k, l, u, v, w, a-1, c-1 thru f-1.
Stratos, Div.-Fairchild Engine & Airplane Corp., v thru e, h thru p, t thru x, a-1 thru l-1
Surface Combustion Corp., d, l, o, u.
Tactair Valve Div.-Aircraft Products Co., d, i thru l u, v, a-1, b-1, c-1, e-1, h-1, j-1, k-1, l-1.
Talley Corp., The, b, c, d, f, h, i, l, m, o, q, t, w, x, a-1, b-1, d-1, l-1.
Tapco Group, Thompson-Ramo-Wooldridge Inc., d, f, g, l, o, v, x, a-1, c-1, d-1, l-1.
Taylor Winfield Corp., d, o, a-1, l-1.
Technical Apparatus Builders, a.
Thermech Engrg. Corp., l, m, v.
Thiokol Chemical Corp., g, v, f-1, r-1.
Transco Products, Inc., d, h, i, j, n, p, x, c-1, d-1, l-1.
Turbo Products, Inc., d, f, g, i, l thru r, v, x, a-1, b-1, f-1, g-1, h-1, i-1, r-1.
Uniflow Valve Corp., c, d, k, l, m, s, u, v, w, y, z, a-1, k-1, p-1, s-1.
United Aircraft Products, Inc., b thru u-1.
United Control Corp., i, a-1, d-1, u-1.
United Electric Controls Co., l, c-1, p-1.
United States Rubber Co., m.
United Supply Co.
Vacuum Research Co.
Valcor Engrg. Corp., b, c, d, f, g, i, l thru o, q, t thru w, a-1, f-1, j-1, k-1, l-1, r-1, t-1.
Vap-Air Aeronautical Products Div., Vapor Heating Corp., a-1, c-1.
Veeco Vacuum Corp., s-1.
Vickers Inc., Div.-Sperry Rand, a, i, j, l, n, o, v, y, b-1, c-1, d-1, h-1, i-1, l-1.
Vickers Inc., Marine & Ordnance Dept., Machinery Hydraulics Div., j, l, o, v.
Vilter Mfg. Co., The, r, s, d-1.
Vinson Mfg. Co. Inc., a thru r, t thru z, a-1 thru h-1, j-1, k-1, l-1, n-1, a-1, r-1, s-1, t-1.

Waldorf Fluid Systems. Div.-F. C. Huyck & Sons, c, d, f thru r, t thru d-1, f-1, g-1, h-1, j-1, k-1, l-1, n-1, o-1, q thru u-1.
Wallace & Tiernan Inc., u, c-1, n-1.
Walworth Co., c, d, h thru l, s thru v, x, y, z, d-1, f-1.
Watertown Div., The New York Air Brake Co., v.
*WEATHERHEAD CO., THE, a, d, h, j, k, n.
Westinghouse Air Brake Co., Industrial Products Div., j, u, a-1, c-1, j-1.
Westinghouse Electric Corp., o, v, b-1, i-1.
Weston Hydraulics Ltd.-Sub., Borg-Warner Corp., c, l, o, t thru w, y, a-1 thru f-1, h-1 thru l-1, q-1, r-1, t-1.
Whittaker Controls, Div.-Telecomputing Corp., b thru r, t thru x, z, a-1 thru h-1, j-1, k-1, l-1, n-1 thru u-1.

VAPOR PHASE CHROMATOGRAPHS
See CHROMATOGRAPHS, VAPOR PHASE

VAPORIZERS, LIQUID OXYGEN

*AIRESEARCH MFG. CO., DIV.-THE GARRETT CORP.
Cambridge Co.-Div.-Carrier Corp.
Clary Dynamics
Dumont Aircraft Fitting Co.
Paul Hardeman, Inc.
Hoefner Corp.
Hofman Labs., Inc.
Hydromatics, Inc.
Linde Co., Div.-Union Carbide Corp.
Parts Engrg. Co., Inc.
Ronan & Kunzl, Inc.
Stearns-Roger Mfg. Co.
Superior Air Products Co.

VARIABLE INDUCTANCES
See INDUCTANCES, VARIABLE

VARNISH

Acme Wire Co.
Arco Co., The
Aries Laboratories, Inc.
Carl H. Biggs Co.
Borden Chemical Co.
*DOW CORNING CORP.
Krylon, Inc.
Midland Industrial Finishes Co.
Penetone Co., The
United States Varnish Co.
Westinghouse Electric Corp.

VESSELS

American Machine & Foundry Co., Government Products Group
Anchor Metal Spinning Co., The
Basco Metal Products, Inc.
Brooks & Perkins, Inc.
Cambridge Co.-Div.-Carrier Corp.
Chicago Bridge & Iron Co.
Doyle & Roth Mfg. Co., Inc.
Dresser Mfg. Div., Dresser Industries, Inc.
General American Transportation Corp.
Paul Hardeman, Inc.
Philip A. Hunt Co.
Industrial Engrg. Corp.
Intercontinental Mfg. Co., Inc.
Kahn & Co., Inc.
Kaiser Aircraft & Electronics, Div.-Kaiser Industries Corp.
Kaiser Metal Products, Inc.-Fleetwings Div.
M. W. Kellogg Co., The
Walter Kidde & Co., Inc., Aviation Div.
Mercury Tool & Mfg. Corp.
*MIRAX CHEMICAL PRODUCTS CORP., METAL CONTAINER DIV.
Monogram Precision Industries
National Tube Div.-United States Steel Corp.
Newbrook Machine Corp.
Nooter Corp.
Norris-Thermador Corp.
Pittsburgh-Des Moines Steel Co.
Precision Sheet Metal, Inc.
Pressed Steel Tank Co.
Reinhold Engrg. & Plastics Co.
Edw. Renneburg & Sons Co.
Rohr Aircraft Corp.
Trailmobile Inc.
Vilter Mfg. Co., The

VHF OMNIRANGE RECEIVING EQUIPMENT
See RECEIVING EQUIPMENT, VHF OMNIRANGE

VHF TRANSCEIVERS
See TRANSCEIVERS, VHF

VIBRATION ABSORBERS

American Felt Co.
American Latex Products Corp.
Anaconda Metal Hose Div., The American Brass Co.
Applied Design Co.
Barco Mfg. Co.
Barry Controls Inc.
Bushings, Inc.
Cleveland Pneumatic Industries, Inc.
Continental Rubber Works
*DOW CORNING CORP.
Dow-Elco, Inc.
Federal Shock Mount Corp.-Div. The Korfund Co., Inc.
Finn Aeronautical Div., T. R. Finn & Co., Inc.
*HOUDAILLE INDUSTRIES, INC., BUFFALO HYDRAULICS DIV.
Johns-Manville
J. W. Johnson & Co., Inc.
Walter Kidde & Co., Inc., Aviation Div.
Lord Mfg. Co.
M B Mfg. Co.
Mc Dowell-Wellman Companies, The
*MIRAX CHEMICAL PRODUCTS CORP., METAL CONTAINER DIV.
Pacific Scientific Co.
Robinson Technical Products, Inc.
Rubbercraft Corp. of California
A. T. Stevens Co.
Taylor Devices, Inc.
Ucinite Co., The, Div.-United-Carr Fastener Corp.
United States Rubber Co.
Western Felt Works & Acadia Synthetic Products Div.

VIBRATION CONTROLS

American Machine & Foundry Co., Greenwich
Bushings, Inc.
Cleveland Pneumatic Industries, Inc.
Epic, Inc.
Genisco, Inc.
B. F. Goodrich Industrial Products Co.
Gulton Industries, Inc.
*HOUDAILLE INDUSTRIES, INC., BUFFALO HYDRAULICS DIV.
J. W. Johnson & Co., Inc.
Kahn & Co., Inc.
Ling Electronics, Inc.
Lord Mfg. Co.
M B Mfg. Co.
*MIRAX CHEMICAL PRODUCTS CORP., METAL CONTAINER DIV.
Pacific Scientific Co.
Robinson Technical Products, Inc.
Solartron Inc.

VIBRATION MEASURING EQUIPMENT
See MEASURING EQUIPMENT, VIBRATION

VIBRATION & SHIMMY DAMPERS
See DAMPERS, VIBRATION & SHIMMY

VIBRATION & SHOCK MOUNTINGS
See MOUNTINGS, VIBRATION & SHOCK

VIBRATORS, INSTRUMENT PANEL

Cornell-Dubilier Electric Corp.
Globe Industries, Inc.
J. W. Johnson & Co., Inc.
Kahn & Co., Inc.
Solartron Inc.
Talley Corp., The

VIBRATORS, MULTIVIBRATORS

Aerolab Development Co.
Bendix Aviation Corp., York Div.
J. W. Johnson & Co., Inc.
Solartron Inc.
Talley Corp., The

VIBRATORS, ULTRASONIC

J. W. Johnson & Co., Inc.
Kin Tel Div.-Cohu Electronics, Inc.
Massa Div.-Cohu Electronics, Inc.

VICES

Aerotec Corp., The
Aircraft Tools, Inc.
Burklyn Co.
Covel Mfg. Co.
A. L. Dery & Sons Tool & Die Co.
Desmond-Stephan Mfg. Co., The
Emmett Mfg. Co.
Kenco Mfg. Co.
Richards-Wilcox Mfg. Co.
Snap-On-Tools Corp.
Swayne, Robinson & Co.

VIEW FINDERS
See FINDERS, VIEW

VISCOMETERS

Automation Products, Inc.
Bristol Co., The
Ferranti Electric Inc.
Fisher Scientific Co.
Fish-Schurman Corp.
Gardner Laboratory, Inc.
General Electric Co., Apparatus Sales Div.
Hagan Chemicals & Controls, Inc.
Hallikainen Instruments
Scientific Instrument Co.

VOLTAGE SUPPLIES, DECADE

American Aeroparts
Bendix Aviation Corp., York Div.
Beva Lab., Inc.
G. L. Collins Corp.
Davenport Mfg. Co.
John Fluke Mfg. Co., Inc.
Hevi-Duty Electric Co.
Julie Research Labs., Inc.
North Hills Electric Co., Inc.
Technical Apparatus Builders
Telectro Industries Corp.
Tel-Instrument Electronics Corp.

VOLTMETERS

American Aeroparts
American Machine & Foundry Co., Government Products Group
Assembly Products, Inc.
Avo Ltd.
Ballantine Labs., Inc.
Beckman Instruments, Inc., Berkeley Div.
Bristol Co., The
Burr-Brown Research Corp.
Burton-Rogers Co., Sales Div.-Hoyt Electrical Instruments.
Columbia Electric Mfg. Co.
Consolidated Electrodynamics Corp.
Cubic Corp.
Curtiss-Wright Corp., Electronics Div.
Daven Co., The
Daystrom Pacific Div.-Daystrom, Inc.
Dejur-Amsco Corp., Electronic Sales Div.
Donner Scientific Co.
Dresser Industries, Inc.
Electric Design & Mfg. Co.
Electro Instruments, Inc.
Electro-Tech Equipment Co.
Elsin Electronics Corp.
Epic, Inc.
Flow Corp.
John Fluke Mfg. Co., Inc.
General Electric Co., Apparatus Sales Div.
Greibach Instruments Corp.
Helipot Div.-Beckman Instruments Inc.
Hewlett-Packard Co.
Hoyt Electrical Instrument Works, Burton Rogers Co.
Kay Electric Co.
Keithley Instruments, Inc.
Kin Tel Div.-Cohu Electronics, Inc.
Marconi Instruments
Marion Instrument Div.
Meters Inc.
Metronix, Inc., Sub.-Assembly Products, Inc.
Minneapolis-Honeywell Regulator Co., Industrial Product Group
F. L. Moseley Co.
National Electronics
New England Scientific Instruments Co.
Non-Linear Systems, Inc.
North Atlantic Industries, Inc.
Paul Nurches Co.
Pace Electrical Instruments Co., Inc.
Physics Research Laboratories, Inc.
Q. V. S. Inc.
Rawson Electrical Instrument Co.
Republic Aviation Corp.
Simpson Electric Co.
Sun Electric Corp., Aeronautical Div.
Systron Corp.
Technical Apparatus Builders
Technique Associates Div., Duncan Electric Co., Inc.
Technology Instrument Corp.
Wacline, Inc.
Waldom Electronics Inc.
Westinghouse Electric Corp.
Weston Instruments, Div.-Daystrom, Inc.

VOLUMETRIC FLOWMETERS
See FLOWMETERS, VOLUMETRIC

VSWR MEASURING EQUIPMENT
See MEASURING EQUIPMENT, VSWR

WALKING BEAM SYSTEMS

*NEWAY EQUIPMENT CO.

WARNING UNITS, FUEL PRESSURE

ACF Industries Inc.
Aircraft Controls Co., Div., Gorn Electric Co., Inc.
Bendix Aviation Corp.-Montrose Div.
A. Biederman, Inc.
Cole-Hersee Co.
Consolidated Controls Corp.
Consolidated Diesel Electric Corp.
Frebank Co.
Simmonds Aerocessories, Inc.
United Aircraft Products, Inc.
United Electric Controls Co.

WARNING UNITS, TEMPERATURE

*ARNOUX CORP.
Avien, Inc.
Consolidated Controls Corp.
Consolidated Diesel Electric Corp.
Fenwal Inc.
C. G. Hokanson Co., Inc.
Thermo Electric Co., Inc.
United Aircraft Products, Inc.
United Control Corp.
United Electric Controls Co.
West Instrument Corp.

WASHERS

a. Brass
b. Ceramic
c. Felt
d. Fibre
e. Insulating
f. Lock
g. Metal
h. Mica
i. Plastic
j. Rubber

Abbott Screw & Mfg. Co.,a, c, d, f, g.
Accurate Electronics Corp., Dept. D, a, d, e, g, i.
Acme Mfg. & Gasket Co., a, c thru g, i, j.
Aero Bolt & Screw Co., Inc., g, i.
Aero Gasket Corp., a, f, g, j.
All Specs Corp., a, d, f, g.
Allied Plastics Supply Corp., d, e, h, i, j.
Allmetal Screw Products Co., Inc., f.
Alloys Unlimited Inc., g, i.
Alpha Metals, Inc., g, i.
Alpitec, Inc., a, e, f, g.
Aluminum Co. of America, g.
Amatom Electronic Hardware Co. Inc., a, d, e.
American Aeroparts, a, c, d, g thru j.
American Agile Corp., i.
American Brass Co., The, a.
American Lava Corp., b.
American Standard Products, Inc., a thru g, i, j.
Amplex Div.-Chrysler Corp., g.
Anchor Packing Co., The, c, d, i, j.
Anti-Corrosive Metal Products Co., Inc.,e, f, g, i.
Aristocrat Plastics, Inc., i.
Armstrong Cork Co., j.
Atlas Screw & Specialty Co., a, f, g.
Auburn Mfg. Co., The, a thru e, g thru j.
W. L. Barrett Co., The, a, f, g.
W. A. Beauchaine & Sons Inc., i.
Belmont Smelting & Refining Works, Inc., g.
Bergen Carbide Co., b, g.
Best Aircraft Corp., a, f, g.
Birnbach Radio Co., Inc., a, e, f.
Bland Burner Co., The, a, g.
Bonny Mfg. Corp., e, i.
Booth Felt Co. Inc., c.
Boston Felt Co., c.
Calinoy-Div.-Illinois Tool Works, a, d thru g, i.
Capital City Mfg. Co., a, g.
Centralab, Div.-Globe-Union, b, e.
Century Fasteners Corp., a, d thru g, i, j.
Chase Brass & Copper Co., Inc., a, g.
Chemplast, Inc., e, i.
Chicago Gasket Co., i.
Cleveland Graphite Bronze, Div.-Clevite Corp., a, g.
Colonial Rubber Co., j.
Connecticut Hard Rubber Co., The, j.
Continental Diamond Fibre Corp., d, e, h, i.
Continental Rubber Works, j.
Cooper Industries, Inc., f, g, i, j.
Corbin Products Div., a, f, g.
Crystal-X Corp., i.
Diamonite Products Mfg. Co., b.
Division Lead Co., g.
Dixon Corp., i.
Dresser Mfg. Div., Dresser Industries, Inc., g.
Du-Co Ceramics Co., b, e.
R. C. Dudek & Co., f.
Eaton Mfg. Co., f.
Eaton Mfg. Co., Reliance Div., a, f, g.
Electrical Insulation Co., Inc., d, e, i.
Electrical Refractories Co., The, b.
Eljay Corp., i.
Emeloid Co., Inc., The, i.
Emerson Plastics Corp., d, e, h, i.
Emmco Plastic Fabricators-Div.-E. M. McCarthy Machine Co.,d, e, i.
Excelsior Leather Washer Mfg. Co., Inc., c, d, i, j.
Federal Screw Products Inc., a, d, f, g, j.
Felters Co., The, c.
Flexrock Co., i.
Fluorocarbon Co., The i.
Fluorulon Labs., Inc., i.
Ford Radio & Mica Corp., h.
Franklin Fibre-Lamitex Corp., d, e, i.
Frenchtown Porcelain Co., b.
George K. Garrett Co., Inc., a, e, f.
Gasket Mfg. Co. Inc., a, c, d, e, g thru j.
General Cement Mfg. Co., Div.-Textron, Inc., d, f, g.
General Gasket Inc., a, c, d, e, g, i, j.
Gladding, McBean & Co., b.
Goshen Rubber Co., Inc., j.
Greene, Tweed & Co., d, j.
Hampden Mfg. Co., Inc., d, i.
H. M. Harper Co., a.
Hays Mfg. Co., e, i.
Hobbs Mfg. Co., f.
Huntington Rubber Mills, j.
Integrated Mica Corp., e, h.
Joclin Mfg. Co., e, i.
Jodee Plastics Co., d, i.
Johns-Manville, d, e, i, j.
Kip Electronics Corp., b, e.
Kling Metal Spinning & Stamping Co., a, g.
Lamtex Industries, Inc., i.
Thomas J. Long, Inc., d, e, i.
Louthan Mfg. Co., The, Div.-Ferro Corp., b.
Lucas Aircraft Supply Co., a thru j.
M & Q Plastic Products, i.
Magnetic Shield Div. Perfection Mica Co., c, d, h, i.
Mercury Tool & Mfg. Corp., a, d, g.
Mica Fabricating Co., b, e, h, i.
Mica Insulator Div.-Minnesota Mining & Mfg., Co., e, h.
Minnesota Mining & Mfg. Co., b, h.
***MIRAX CHEMICAL PRODUCTS CORP., METAL CONTAINER DIV., i, j.**
Mitronics Inc., b.
Monogram Precision Industries
J. I. Morris Co., a, f, g.
National Beryllia Corp., b.
National Ceramic Co., b.
National Tel-Tronics Corp., d, i.
National Vulcanized Fibre Co., d, e, i.
New England Tape Co., Div.-United-Carr Fastener Corp., i.
Orchard Industries, Inc., Actionflex Div., e, i, j.
PIC Design Corp., Sub.-Benrus Watch Co., Inc., f, g.
Pacific Cut Washer Co., a, d thru i.
Peerless Products Industries, a, c, d, e, g thru j.
Penn Fibre & Specialty Co., Inc., a, c, d, e, g thru j.
Pilgrim Products Inc., e, i.
Plastic Age Sales, Inc., i.
Polymer Corp., The, e, i.
Positive Lock Washer Co., The, f.
R & R Engrg. Co., a, c, d, g, i, j.
Raybestos-Manhattan, Inc., j.
Raybestos-Manhattan, Inc., Pa., i, j.
Republic Steel Corp., f, g.
Rogers Corp., d, e, i, j.
Milton Ross Metals Co., The, e, i.
Rubber Teck Inc., j.
Rubbercraft Corp. of California, j.
Saginaw Bearing Co., a.
St. Regis Paper Co., Panelyte Div., e, i.
Sanford Plastics Corp., i.
Sealectric Switch & Relay Corp., d, e, j.
W. S. Shamban & Co., i.
Silicone Insulation, Inc., e, h, i.
Sinclair Mfg. Co., a, d, e, g, i.
Skinner Precision Products, d.
Slip Ring Co. of America, i.
Sparta Mfg. Co., Div.-U. S. Ceramic Tile Co., e, i.
Spruce Pine Mica Co., Inc., e, h.
Standard Locknut & Lockwasher Inc., f.
Stanley-Judd Div.-The Stanley Works, a, e, g
Star Stainless Screw Co., a, f.
Staver Co., Inc., The , a, c, d, e, g, i, j.
A. T. Stevens Co., j.
Stevens Products, Inc., e.
Superior Steatite & Cermamic Corp., b, e.
Teiner Engrg. Corp., a, g.
Thermal Refractories Corp., b.
Thompson-Bremer & Co., f.
Turbo Products, Inc., i.
United Mineral & Chemical Corp., h.
U. S. Fiber & Plastics Corp., i.
United States Rubber Co., j.
Variety Aircraft Corp., a, g.
Waterbury Companies, Inc., i.
Western Felt Works & Acadia Synthetic Products Div., c, j.
Westlake Plastics Co., i.
Wilmington Fibre Specialty Co., d, e, i.
Wrought Washer Mfg., Co., a, c thru i.

WATER INJECTION EQUIPMENT

Accessory Products Co., Div.-Textron Inc.
***AIRESEARCH MFG. CO., DIV.-THE GARRETT CORP.**
Bendix Utica Div., Bendix Aviation Corp.
Chandler Evans Corp.
Components Corp.
Curtiss-Wright Corp., Santa Barbara Div.
Eastern Industries Inc.
Hydra-Power Corp.
Lear, Inc.
Marquardt Aircraft Co.
Talley Corp., The
Tapco Group, Thompson-Ramo-Wooldridge Inc.
Turbo Products, Inc.
Washington Technological Associates Inc.
Western Gear Corp.

WATER INJECTION SYSTEMS
See INJECTION SYSTEMS, WATER

WAVE TRAPS

Dietz Design & Mfg. Co.
Meridian Metalcraft, Inc.
Radar Design Corp.

WAVEGUIDE STANDS
See STANDS, WAVEGUIDE

WAVEGUIDE WINDOWS
See WINDOWS, WAVEGUIDE

WAVEGUIDES

Ainslie Corp.
Aircom Inc.
Aircom Inc. of New Jersey
Airtron Inc., Div.-Litton Industries
American Machine & Foundry Co., Government Products Group
American Machine & Foundry Co., Greenwich
***AVCO MFG. CORP., CROSLEY DIV.**
Bart Mfg. Corp.
Budd Stanley Co. Inc.
Cormac Aviation
Central Electronic Mfrs., Div.-Nuclear Corp. of America
Chemalloy Electronics Corp.
Demornay-Bonardi
Diamond Antenna & Microwave Corp.
Douglas Microwave Co., Inc.
Engelhard Industries Inc., D. E. Makepeace Div.
FXR, Inc.
Gabriel Co., The, Gabriel Electronics Div.
Gilfillan Bros. Inc.
John Gombos Co., Inc.
Highland Rim Machine Works Inc.
Hughes Tool Co., Aircraft Div.
Walter J. Hyatt Co., The
I-T-E Circuit Breaker Co.
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Monogram Precision Industries
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National Pneumatic Co., Inc., Holtzer-Cabot Divs.
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Portchester Instrument Corp.
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Telerad Mfg. Corp.
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American Machine & Foundry Co., Greenwich
Barker Sales Co,
Bendix Aviation Corp., York Div.
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Demornay-Bonardi
Diamond Antenna & Microwave Corp.
Douglas Microwave Co., Inc.
FXR, Inc.
Federal Mfg. & Engrg. Corp.
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- b. Electric Arc
- c. Inert Gas
- d. Manual

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- c. Antenna
- d. Asbestos Insulated
- e. Beryllium Copper
- f. Ceramic Insulated
- g. Cut & Stripped
- h. Enameled
- i. Filament
- j. Fine Wire Specialties
- k. Forms
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- z. Phosphor Bronze
- a1. Plastic Insulated
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- c1. Recording
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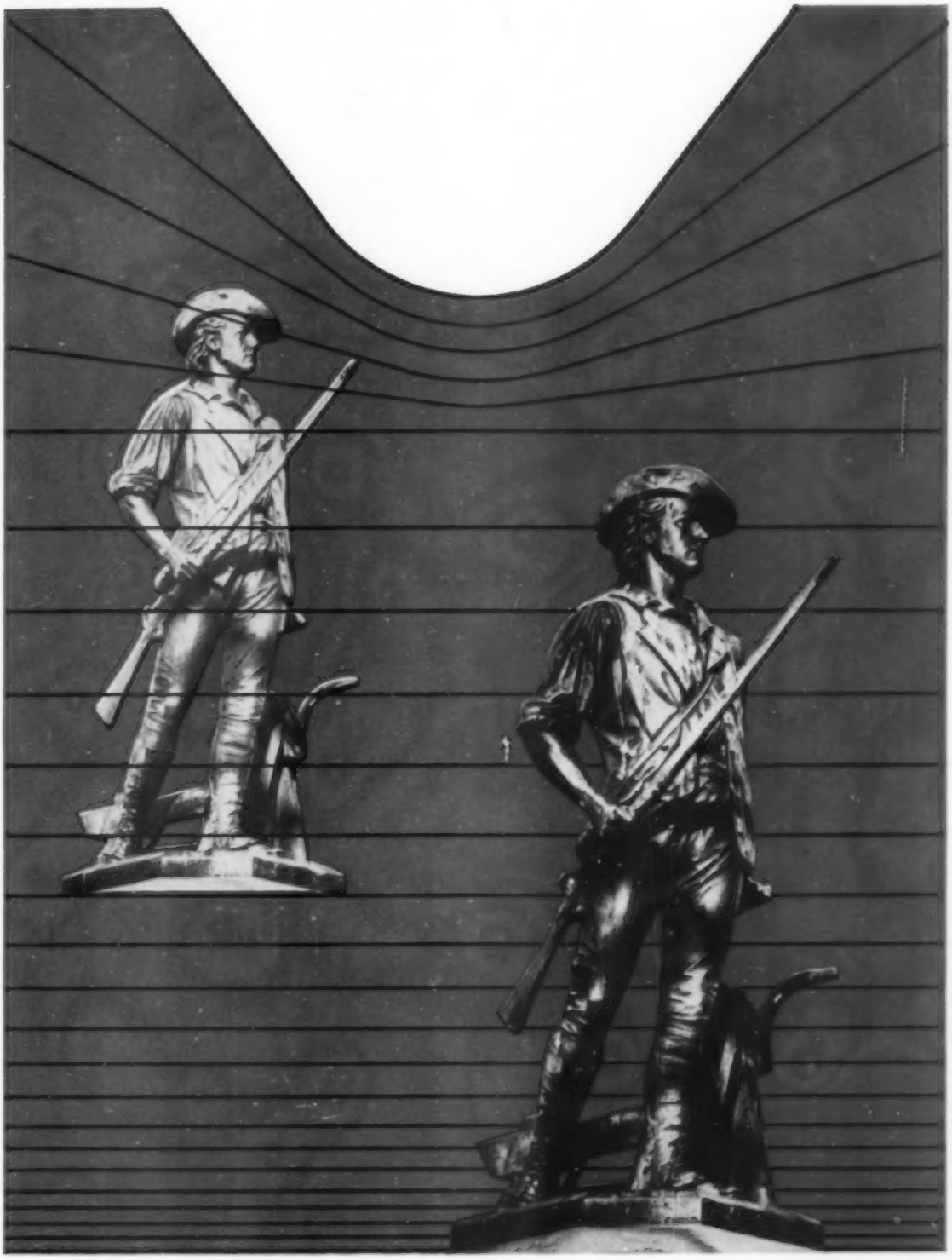

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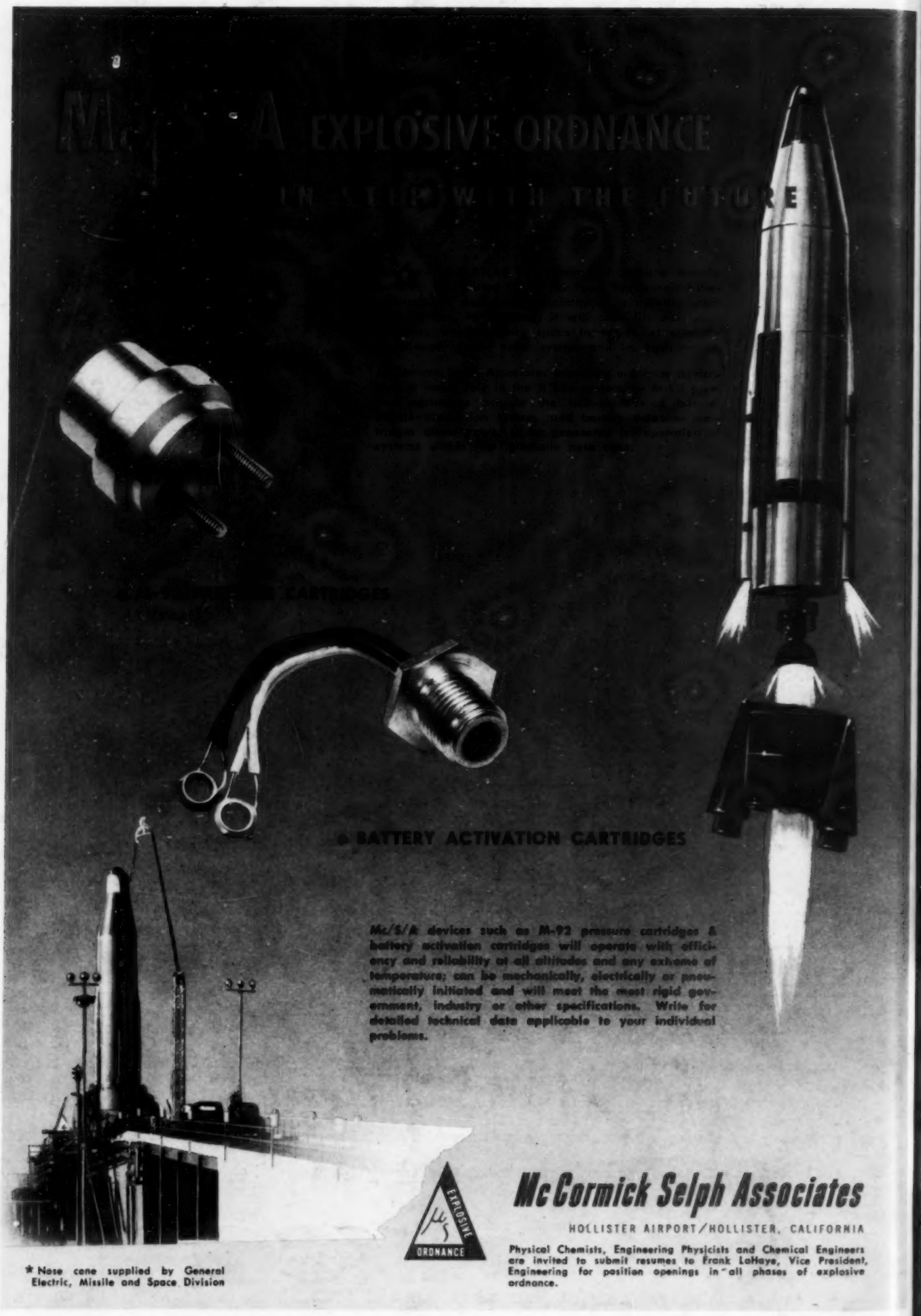

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